Vischer & Bolli

7

Clamping systems
Vices
Clamping elements

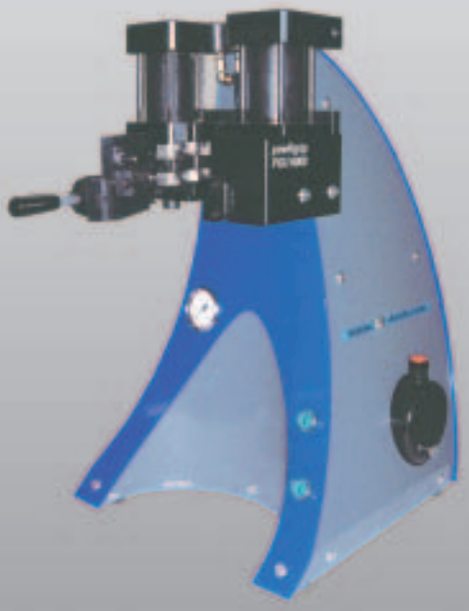
Systèmes de serrage
Etaux
Eléments de serrage

Spannsysteme
Schraubstöcke
Spannmittel

powRgrip®

The kool generation!

Pressure instead of heat!
Presser au lieu de chauffer!
Einpressen statt Erhitzen!



Retention force up to 400 Nm
Runout < 0,003 mm
Clamping in < 10 seconds

See catalogue vb no. 6

Force de serrage jusqu'à 400 Nm
Concentricité < 0,003 mm
Serrage complete en < 10 secondes

Voir catalogue vb No. 6

Haltekraft bis 400 Nm
Rundlauf < 0,003 mm
Spannvorgang < 10 Sekunden

Siehe Katalog Nr. 6

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Norm 99120

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All catalogue prices are net and exclude VAT.
Prices printed in bold type are stock items!

Tout le catalogue à prix nets sans TVA
Les prix en caractères gras = articles stockés!

Ganzer Katalog Nettopreise exklusive MwSt.
fett gedruckte Preise = Lagerartikel, ab Werk!

UNO-MILL vice

Etau UNO-MILL

UNO-MILL Spanner

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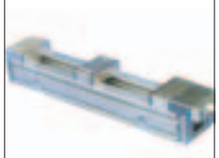

DEUX-MILL vice

Etau DEUX-MILL

DEUX-MILL Spanner

27

Two-piece precision machine vice

Etau machines de précision en deux pièces

Zweiteiliger Präzisions-Maschinenschraubstock

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FLE Modular multi-way clamp **(With zero-point alignment from both sides)**

FLE système de serrage modulaire **(Avec orientation de point zéro des deux côtés)**

FLE Modularer Mehrfach-spanner **(Mit beidseitiger Nullpunktorientierung)**

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SVF Modular multi-way clamp **(With zero-point alignment from one sides)**

SVF système de serrage modulaire **(Avec orientation de point zéro d'un côté)**

SVF Modularer Mehrfach-spanner **(Mit einseitiger Nullpunktorientierung)**

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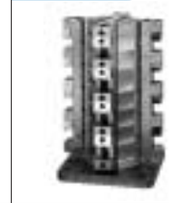

Cube for SVF modular multi-way clamp

Cube pour système de serrage modulaire SVF

Würfel für SVF modularer Mehrfachspanner

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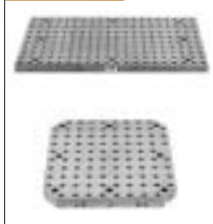
Basic elements — Eléments de base — Basis Elemente



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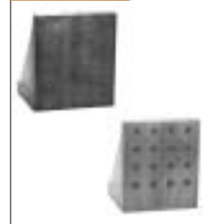

Angle plate

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Accessories LEAVE — Accessoires LEAVE — Zubehör LEAVE

Step clamp in CK45

Bride de serrage crénelée en CK45

Spannpratze mit Treppenzähne aus CK45

Stop, pirotable 360°
Support

Butée orientable 360°
Support

Anschlag drehbar 360°
Abstütz-Element

Stop bloc

Bloc de butée

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Swing clamp

Bride pivotante

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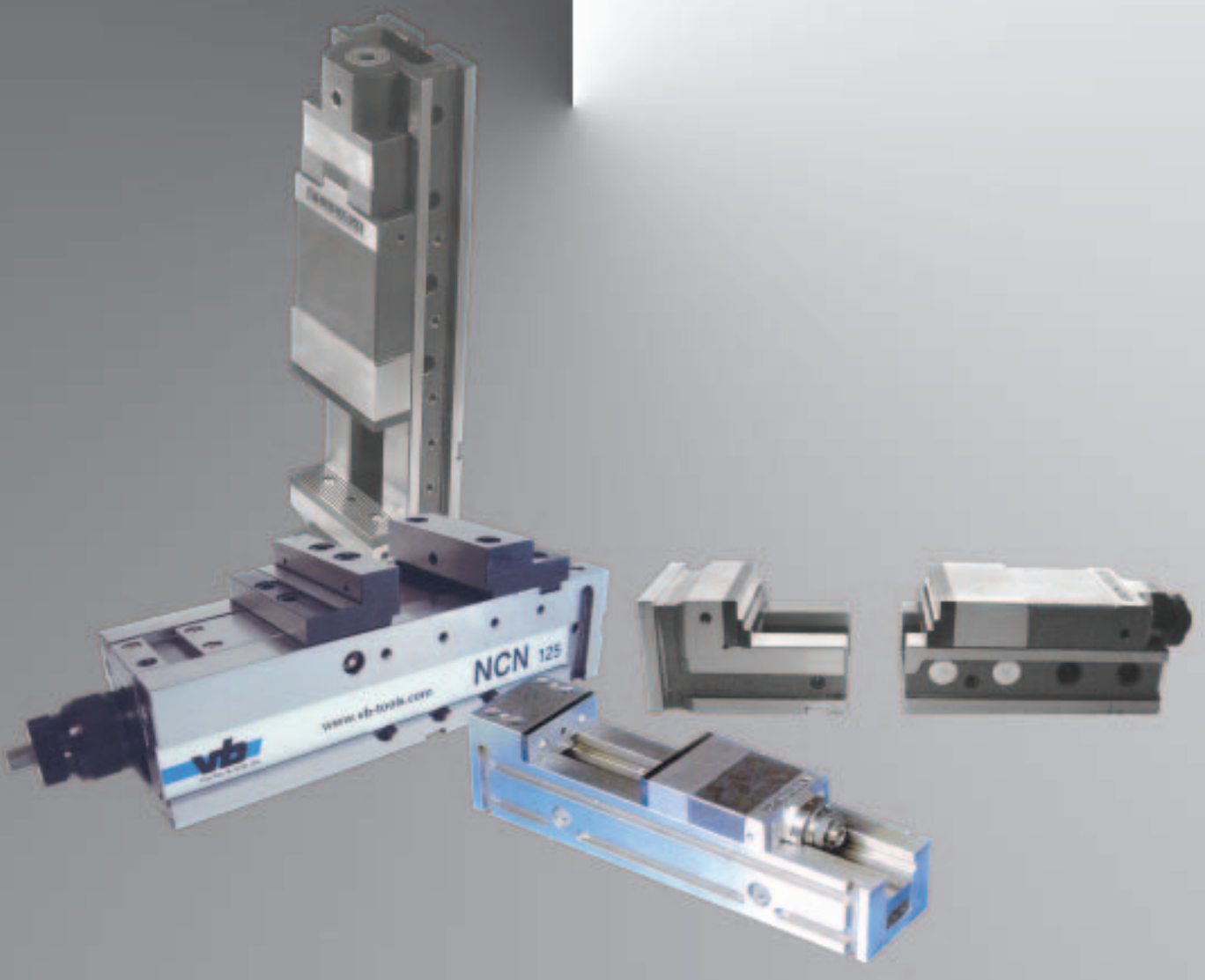
Vices
Etaux
Schraubstöcke



NCN Clamping vice with mechanical clamping force multiplier

(1) The spindle is completely sealed against chips and coolant

(2) Quick change of parallels and jaws with our CLAK System (pat.)
see page 22-24

(3) Mechanical clamping force multiplier (patented). (Knuckle-joint device)

(4) Holes for water drainage

Etau NCN avec multiplicateur de pression mécanique

(1) Protection totale contre les copeaux et lubrifiant

(2) Système breveté à changement rapide de cales et de mors CLAK system (pat.)
voir page 22-24

(3) Système de multiplicateur de pression mécanique à genouillère breveté

(4) Passage pour écoulement d'eau

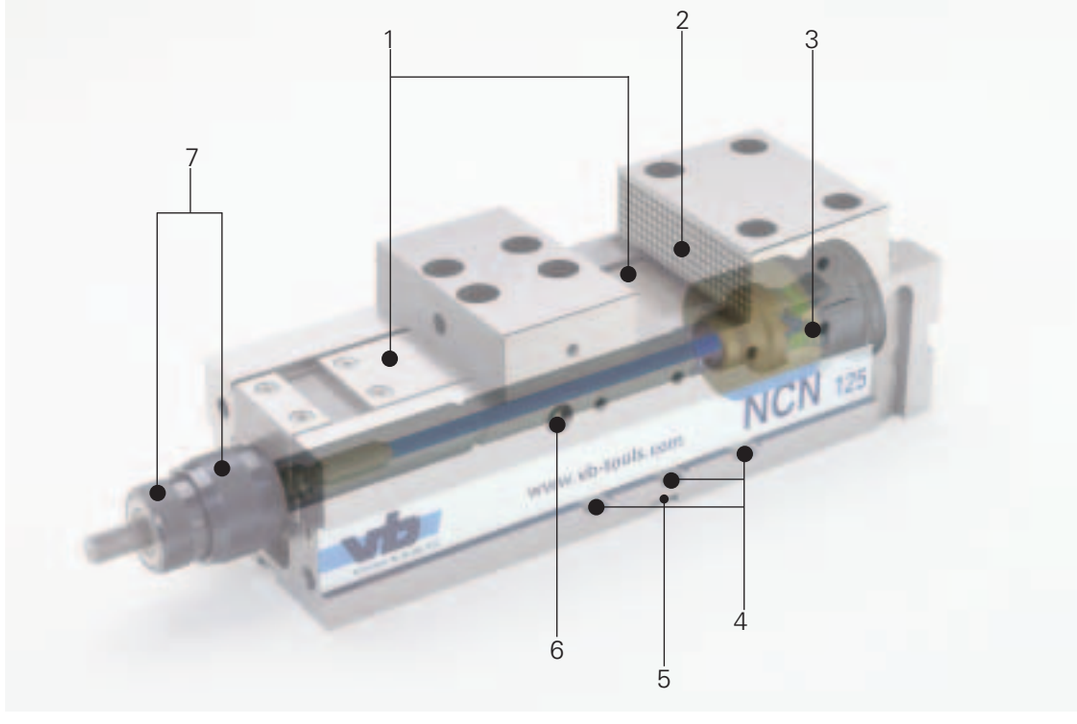
NCN Hochdruck-Spanner mit mechanischem Präzisions-Kraftverstärker

(1) totale und hermetische Vollkapselung der Spindel gegen Kühlmittel und Späne!

(2) Schnellwechselsystem für Parallel-Unterlagen und Backen CLAK (pat.)
siehe Seite 22-24

(3) mechanische Präzisions-Kraftübertragung patentiert. Kniehebel-Prinzip

(4) Austrittöffnung für Kühlmittel.



(5) High accuracy
see page 9

(6) Standard lubrication fitting

(7) Two control knobs. One for the approach at the workpiece; and one for the clamping force selection:
1 ton; 2 tons;
3 tons; 4 tons.

Optionally with VB Lock pull-in bolts mounted.

Price on request.

(5) Tolérances de fabrication dans les 0,01 mm
voir page 9

(6) Graisseur pour graissage central glissière et guide.

(7) Deux poignées: une pour l'approche à la pièce; une pour la pré-sélection de la force de serrage:
1000 de N; 2000 de N;
3000 de N; 4000 de N.

En option avec tirettes VB Lock directement dans l'étau.

Prix sur demande.

(5) alle geometrischen Mass-Toleranzen im Hundertstel
siehe Seite 9

(6) Schmiernippel für zentrale Schmierung von Schlitten und Führung.

(7) Spannkraftvorwahl mittels Einstellring und Antriebseinheit für die Spannweiteneinstellung:
1000 kg; 2000 kg; 3000 kg;
4000 kg.

Auf Wunsch mit VB Lock Spannbolzen direkt im Schraubstock.

Preis auf Anfrage.

NCN-Clamping vice

Types and dimensions

– Plugs are assembled by the manufacturer
– Plugs including M8x25 mm screw, 751 553 must be delivered.

Etau-NCN

Types et dimensions

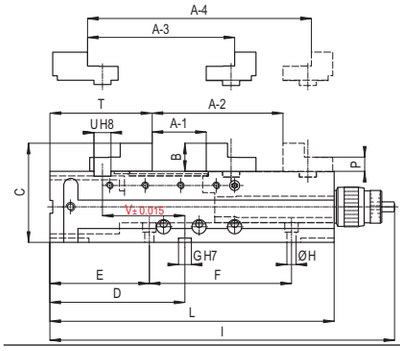
– Les boulons de serrage sont montés par le fabricant.
- Les boulons de serrage avec vis vis 751 553, M8x25 mm doivent être livrés.

NCN-Hochdruckspanner

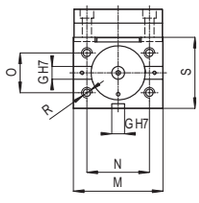
Typen und Baumasse

– Spannbolzen werden vom Hersteller montiert.
– Spannbolzen inkl. Schraube 751 553, M8x25 mm müssen angeliefert werden.

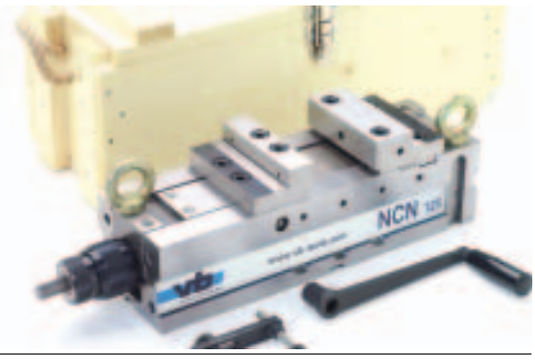
NCN-s reversible jaws



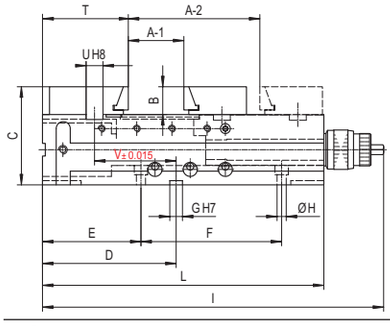
NCN-s mors retournables



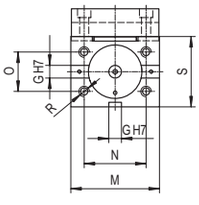
NCN-s mit Umkehrbacken



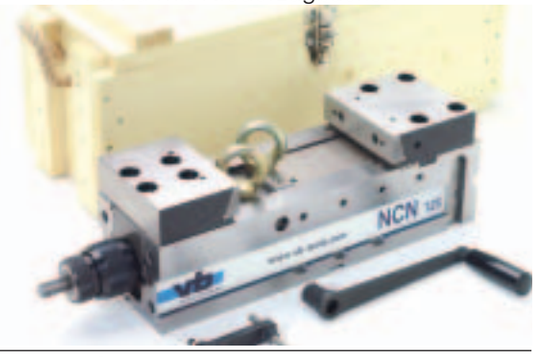
NCN-d with pull-down jaws



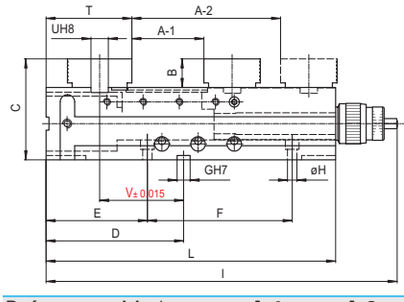
NCN-d mors autoplaqants



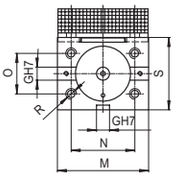
NCN-d mit Niederzugbacken



NCN-k with square block jaws



NCN-k bloc de mors carré



NCN-k mit Blockbacken

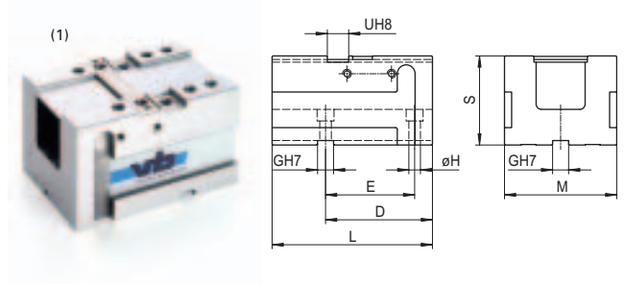
Ref.	Mod.	A-1	A-2	A-3	A-4	B	C	D	E	F	G	H	I		
7758 4701	NCN-s 125	0-79	79-187	97-207	205-315	39,5	139,5	190	140	200	18	13	485		
		L	**M**	**N**	**O**	**P**	**R**	**S**	**T**	**U**	**V**	**kg**			
		400	126	88	56	20	M12	100	144	24	116	40			
Ref.	Mod.	**A-1**	**A-2**	**A-3**	**A-4**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**		
7758 4801	NCN-s 160	0-88	140-268	132-260	312-440	49,8	164,8	244	144	300	18	13	615		
		L	**M**	**N**	**O**	**P**	**R**	**S**	**T**	**U**	**V**	**kg**			
		530	164	128	67	25	M16	115	164	30	159	72			
Ref.	Mod.	**A-1**	**A-2**	**A-3**	**A-4**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**		
7758 4702	NCN-d 125	0-79	79-187	—	—	39,5	139,5	190	140	200	18	13	485		
		L	**M**	**N**	**O**	**P**	**R**	**S**	**T**	**U**	**V**	**kg**			
		400	126	88	56	—	M12	100	122	24	116	43			
Ref.	Mod.	**A-1**	**A-2**	**A-3**	**A-4**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**		
7758 4802	NCN-d 160	0-83	135-263	—	—	49,8	164,8	244	144	300	18	13	615		
		L	**M**	**N**	**O**	**P**	**R**	**S**	**T**	**U**	**V**	**kg**			
		530	164	128	67	—	M16	115	145	30	159	77			
Ref.	Mod.	**A-1**	**A-2**	**A-3**	**A-4**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**		
7758 4703	NCN-k 125	0-97	95-201	—	—	39,5	139,5	190	140	200	18	13	485		
		L	**M**	**N**	**O**	**P**	**R**	**S**	**T**	**U**	**V**	**kg**			
		400	126	88	56	—	M12	100	118,5	24	116	41			
Ref.	Mod.	**A-1**	**A-2**	**A-3**	**A-4**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**		
7758 4803	NCN-k 160	0-109	161-289	—	—	49,8	164,8	244	144	300	18	13	615		
		L	**M**	**N**	**O**	**P**	**R**	**S**	**T**	**U**	**V**	**kg**			
		530	164	128	67	—	M16	115	141	30	159	76			

Accessories for NCN

Accessoires pour NCN

Zubehör für NCN

Extension element
Elément de rallonge
Verlängerungselemente



Ref.	D	E	G	H	L	M	S	U	kg		
58 47 71 19	120	100	18	13	180	126	110	24	12		
58 48 71 19	170	100	18	13	240	164	115	30	23		

Pair of clamps
Paire de brides
Paar Spannpratzen

Ref.	for type / pour type / für Modell		
58 47 69 10	NCN-s/d/k 125 / 160		

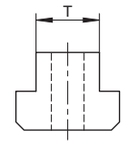
Crank-lever
Clé de serrage à manivelle
Handkurbel

Ref.	for type / pour type / für Modell		
58 47 84 10	NCN-s/d/k 125 / 160		

Angle drive NCN
Renvoi d'angle NCN
Winkelantrieb

Ref.	for type / pour type / für Modell		
58 47 86 10	NCN-s/d/k 125		
58 48 86 10	NCN-s/d/k 160		

Pair of clamps
Paire de brides
Paar Spannpratzen



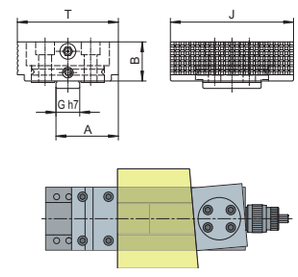
for type / pour type / für Modell NCN-s/d/k 125 / 160

Ref.	58 02 27 92	58 02 27 93	58 02 27 94	58 02 27 95	58 02 27 96	58 02 27 97
T	12 mm	14 mm	16 mm	18 mm	20 mm	22 mm

Rotary key
Clé de serrage à rotule
Gelenk-Spannhebel

Ref.	for type / pour type / für Modell		
58 47 85 10	NCN-s/d/k 125 / 160		

Floating jaw
Mors palonnier
Pendelbacke mobil



Ref.	for type / pour type / für Modell	A	B	G	J	T		
58 47 74 10	NCN-s/d/k 125	63	39,5	24	124,4	102		
58 48 74 10	NCN-s/d/k 160	85	49,8	30	160,4	140		

Bestellbeispiel: 3 Stk. 58 47 74 10

Exemple de commande 3 p. 58 47 74 10

Accessories for NCN

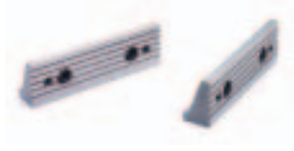
Accessoires pour NCN

Zubehör für NCN

Pair of smooth jaws
Paire de mors lisses
Paar glatte Niederzug-Spannbacken

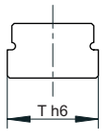
Ref.	for type / pour type / für Modell		
58 47 45 09	NCN-d 125		
58 48 45 09	NCN-d 160		

Pair of grooved jaws
Paire de mors striés
Paar geriffelte Niederzug-Spannbacken



Ref.	for type / pour type / für Modell		
58 47 44 09	NCN-d 125		
58 48 44 09	NCN-d 160		

Pair of positioning keys
Paire de clavettes de positionnement
Paar Passnutensteine mit Schraube



for type / pour type / für Modell NCN-s/d/k 125 / 160

Ref.	58 02 13 92	58 02 13 93	58 02 13 94	58 02 13 95	58 02 13 96	58 02 13 97
T	12 mm-h6	14 mm-h6	16 mm-h6	18 mm-h6	20 mm-h6	22 mm-h6

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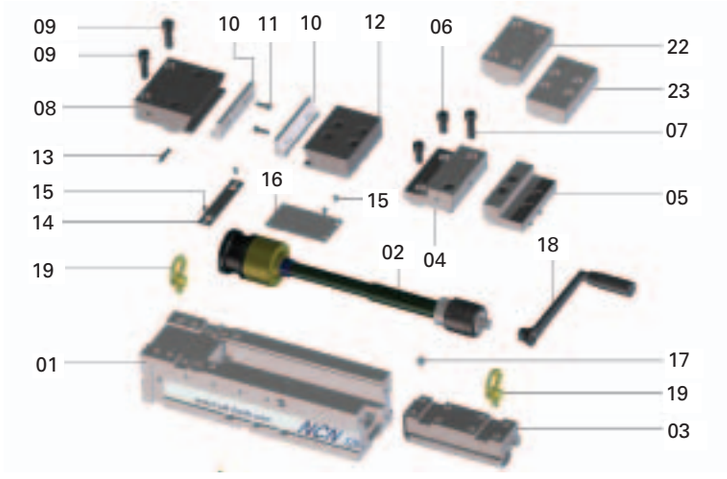
CLAK
cales paralleles page 22-24

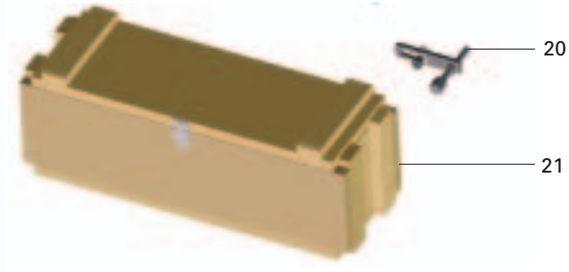
CLAK
Parallel-Unterlagen Seite 22-24

Spare parts

Pièces de rechange

Ersatzteile





01 Body
02 Clamping force multiplier group
03 Slide-way
04 Fixed jaw "L" type NCN-s
05 Moveable jaw "L" type NCN-s
06 Screw TCEI M12x45
07 Screw TCEI M12x45
08 Fixed support NCN-d
09 Screws for fixed jaws
10 Jaws for NCN-d
11 Screws for jaws TCEI M6x25
12 Moveable support NCN-d
13 Bushing rubber NCN-d
14 Fixed plate
15 Screw TSEI M4x10
16 Moveable plate
17 Protection screws
18 Crank lever
19 Eye bolt
20 Work stop
22 Fixed square block jaw NCN-k
23 Moveable square block jaw NCN-k

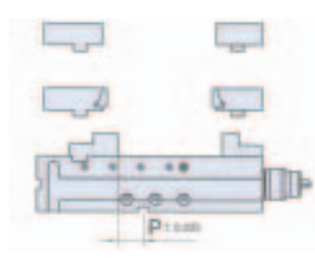
01 Corps de base
02 Groupe multiplicateur de pression
03 Guide
04 Mors fixe à en L pour étau NCN-s
05 Mors mobile en L pour étau NCN-s
06 Vis M12x45
07 Vis M12x45
08 Support fixe pour étau NCN-d
09 Vis de serrage du support fixe
10 Mors pour NCN-d
11 Vis pour mors M6x25
12 Support mobile NCN-d
13 Caoutchouc
14 Plaque fixe
15 Vis M4x10
16 Plaque mobile
17 Bouchon a vis
18 Clé à manivelle
19 Anneau de levage
20 Butée latérale
22 Mors fixe carré pour étau NCN-k
23 Mors mobile carré pour étau NCN-k

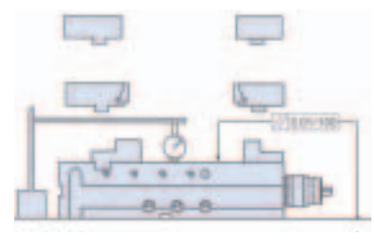
01 Grundkörper-Unterteil
02 Koplette Spindel mit Kraftverstärker
03 Spindelmutter-Schlitten
04 Stufenbacke - fest für NCN-s
05 Stufenbacke - beweglich für NCN-s
06 Backenbefestigungsschraube M12x25
07 Backenbefestigungsschraube M12x45
08 Niederzugbackenträger fest für NCN-d
09 Backenbefestigungsschraube
10 Niederzug-Spannbacke
11 Befestigungsschraube - Spannbacke M6x25
12 Niederzugbackenträger - beweglich für NCN-d
13 Gummi
14 Einlegeplatte - feste Seite
15 Schraube M4x10
16 Platte
17 Gewindeverschlussstopfen
18 Handkurbel
19 Ringschrauben
20 Seitenanschlag
22 Blockbacke-Fix für NCN-k
23 Blockbacke-Mobil für NCN-k

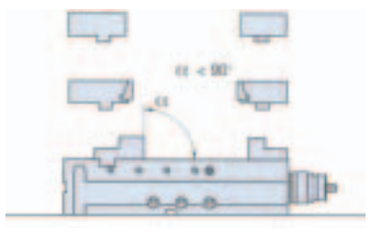
Shape, positional and dimensional tolerances

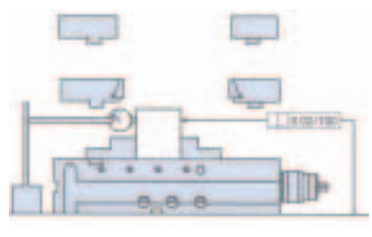
Tolérances de forme, de position et dimensionnelle

Form-, Lage- und Masstoleranzen









Twin-clamp-system

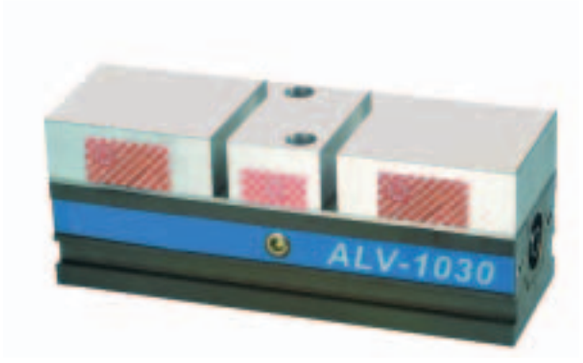
Double or centric clamping

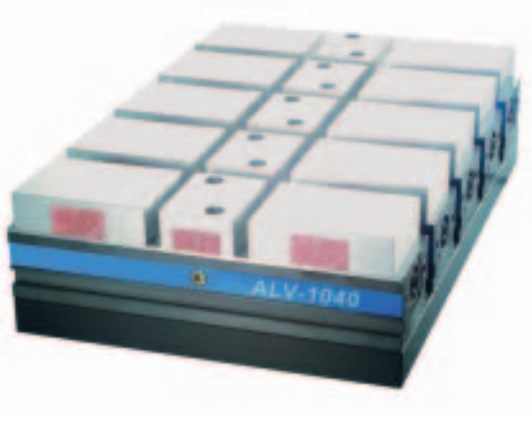
Système de serrage double

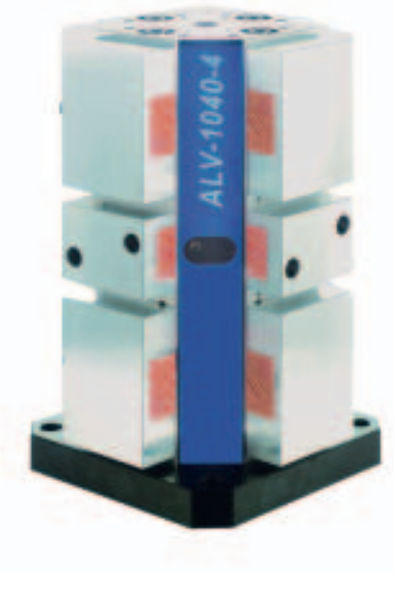
Serrage double ou centré

Doppelspanner

Doppelt oder zentrisch Spannen







Twin-clamp-system

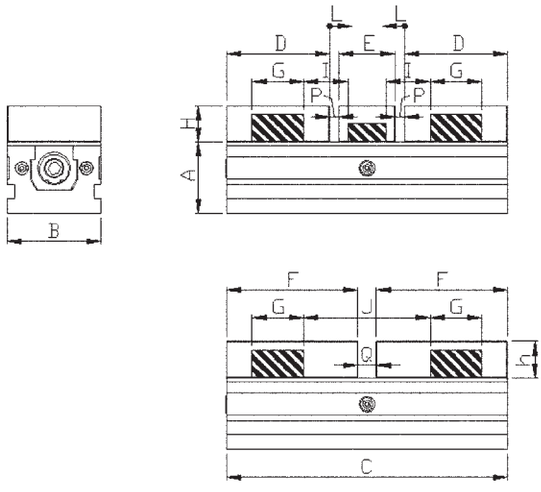
Double or centric clamping

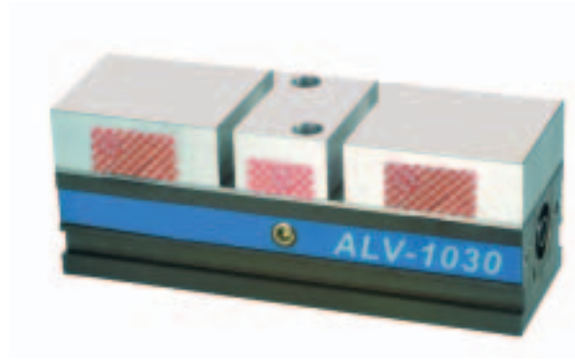
Système de serrage double

Serrage double ou centré

Doppelspanner

Doppelt oder zentrisch Spannen

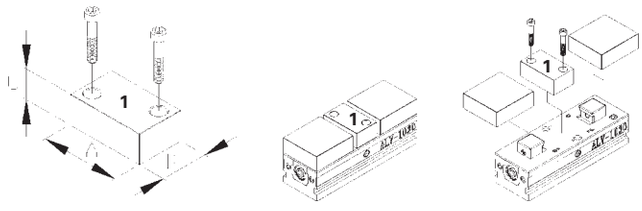




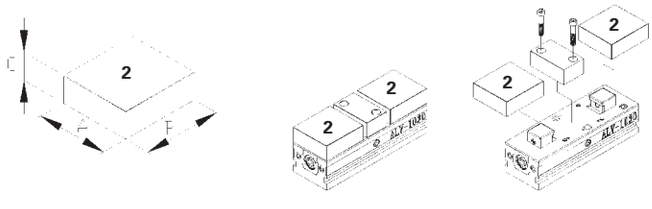
Ref.	A	B	C	D	E	F	G	H	h	I	J	L	P	Q		
ALV-1030	76	100	300	110	60	140	55	39	29,5	44,5	135	10	0-10	0-20		

Ref.	A	B	C	D	E	F	G	H	h	I	J	L	P	Q		
ALV-1040	76	100	400	140	75	170	55	39	29,5	74,5	195	18	0-15	15-45		

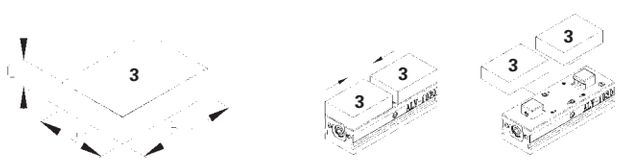
Ref.	A	B	C	D	E	F	G	H	h	I	J	L	P	Q		
ALV-1550	95	150	500	185	80	207,5	65	49	35	97,5	245	22,5	0-22,5	35-80		



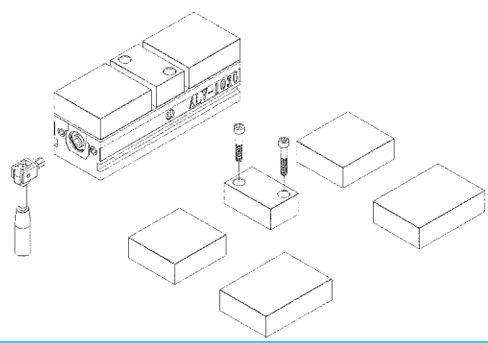
Ref.	A	B	C		
ALV-100-57A	100	60	39		
ALV-100-57B	100	75	39		
ALV-100-57C	150	80	49		
	M10 x 1,5	**2 pcs**			



Ref.	A	B	C		
ALV-100-56A	100	110	39		
ALV-100-56B	100	140	39		
ALV-100-56C	150	185	49		



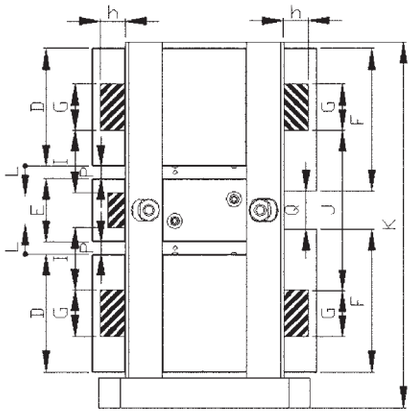
Ref.	A	B	C		
ALV-100-55A	100	140	39		
ALV-100-55B	100	170	39		
ALV-100-55C	150	207,5	49		

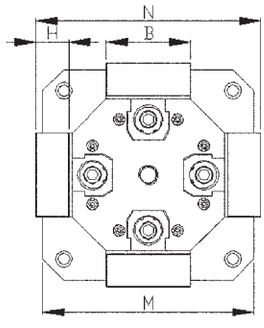


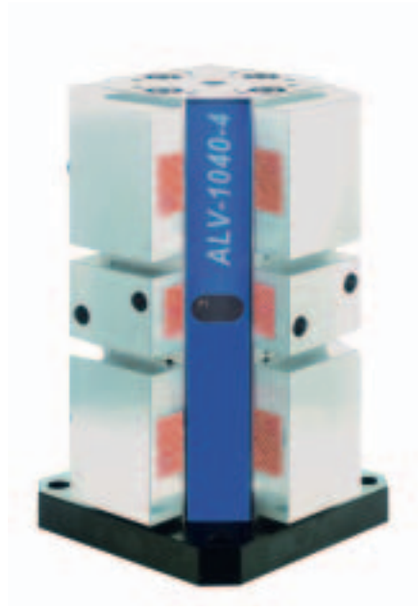
Double clamp cube

Cube de serrage double

Doppelspannwürfel





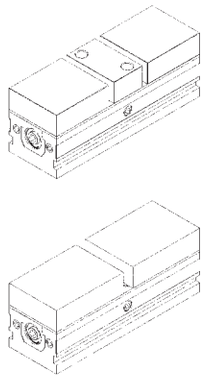


Ref.	B	D	E	F	G	H	h	I	J	K	L	M	N	P	Q		
ALV-1040-4	100	140	75	170	55	39	29,5	74,5	195	435	18	250	266	0-15	15-45		

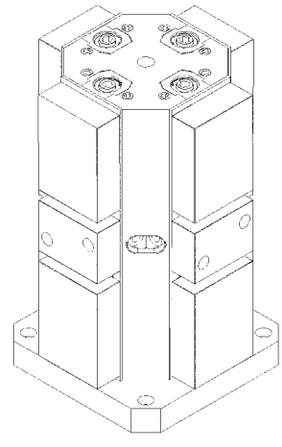
Ref.	B	D	E	F	G	H	h	I	J	K	L	M	N	P	Q		
ALV-1550-4	150	185	80	207,5	65	49	35	97,5	245	535	22,5	300	346	0-22,5	35-80		

Ref.	B	D	E	F	G	H	h	I	J	K	L	M	N	P	Q		
ALVX-1040-4	100	140	75	170	55	39	29,5	74,5	195	435	18	-	266	0-15	15-45		

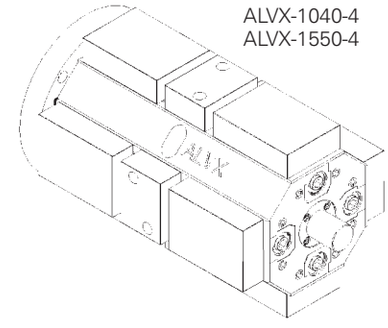
Ref.	B	D	E	F	G	H	h	I	J	K	L	M	N	P	Q		
ALVX-1550-4	150	185	80	207,5	65	49	35	97,5	245	535	22,5	-	346	0-22,5	35-80		



ALV-1040-4
ALV-1550-4



ALVX-1040-4
ALVX-1550-4



Modular precision vice with pull-down action

The advantages of modularity

Optionally with VB Lock pull-in bolts mounted.

Price on request.

Etau de précision autoplaquant modulaire

Les avantages de la modularité

En option avec tirettes VB Lock directement dans l'étau.

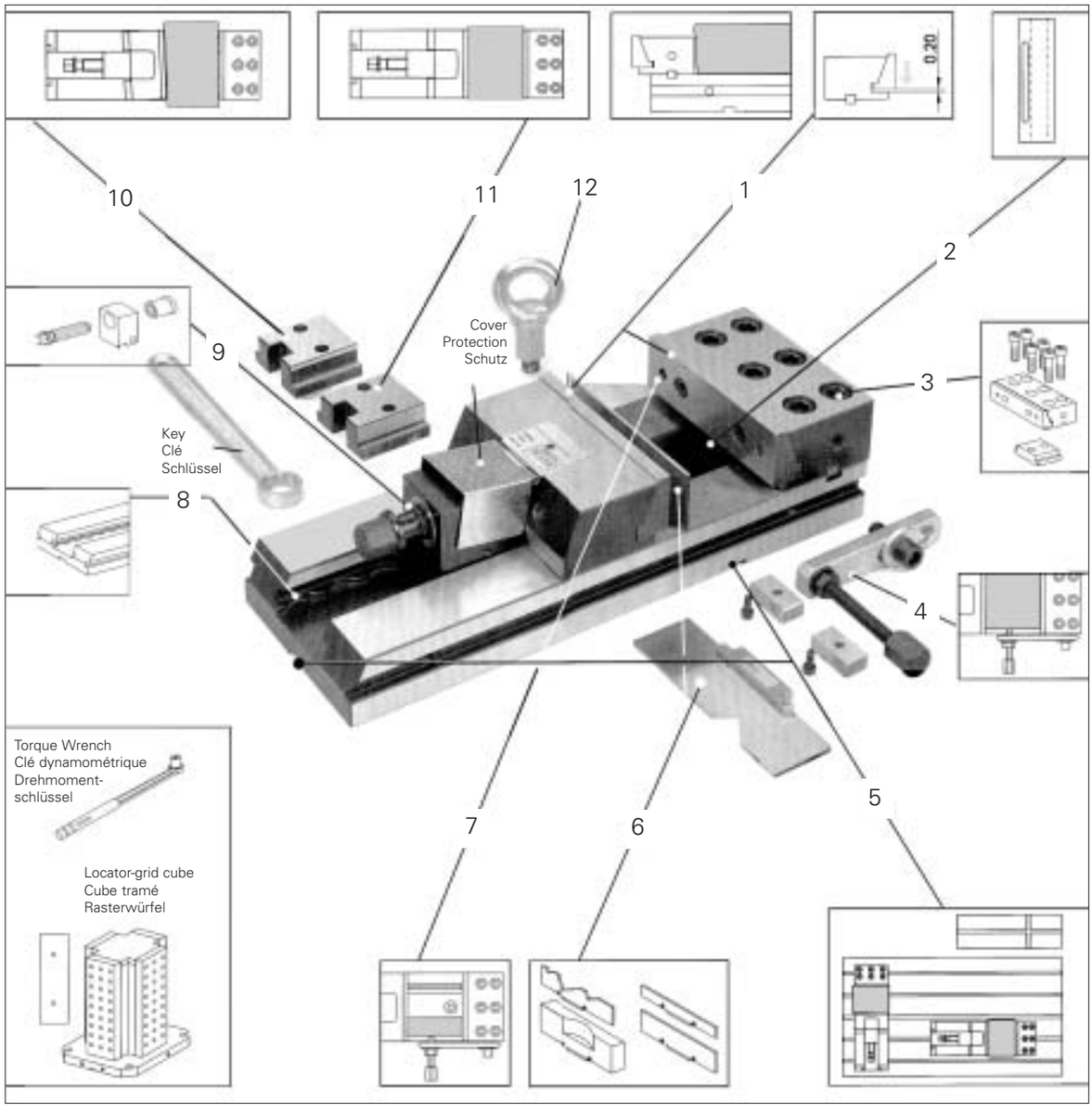
Prix sur demande.

Modularer Präzisions-Niederzug Schraubstock

Die Vorteile von modularen Spannmitteln

Auf Wunsch mit VB Lock Spannbolzen direkt im Schraubstock.

Preis auf Anfrage.



01 Pull down jaws 0,02 mm
02 CLAK fitting
03 6 bolts for the fixed support
04 Work stop
05 Cross key for T-slots M.T.
06 Parallels, Angular parallels, soft jaws quick change
07 Jaws with threated holes / for a contrast prop
08 Patented system for quick positioning
09 Block for clamping screw with threated anti-friction bronze bushing
10 Floating slide-way for raw workpieces
11 Rigid slide-way for finished workpieces
12 Eye bolt for lifting

01 Mors de traction descendante 0,02 mm
02 Fixation CLAK
03 6 boulons pour le support fixe
04 Butée de travail
05 Clavette transversale pour rainures en T
06 Parallèles/Parallèles angulaires CLAK
07 Mors avec trous filetés pour un support de contraste
08 positionnement rapide
09 Bloc pour vis de serrage avec bague bronze antifriction filetée
10 Glissière flottante pour pièces brutes
11 Glissière rigide pour pièces finies
12 Anneau de levage

01 Absenkbare Klemmbacke 0,02 mm
02 Anschluss für CLAK Parallelunterlagen
03 Befestigung mit 6 Bolzen
04 Werkstückanschlag
05 Kreuznuten für T-Nuten
06 CLAK Parallelunterlagen
07 Klemmbacke mit Gewindelöchern für Kontrast-Pop
08 Schnellpositionierung, pat.
09 Demontierbarer Spindelblock mit Bronze-Gewindebüchse
10 Bewegliche Führung für rohe Werkstücke
11 Feste Führung für bearbeitete Werkstücke
12 Ringschraube zum Anheben

A wealth of options with OML workholders

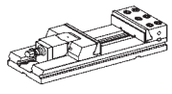
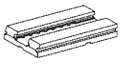
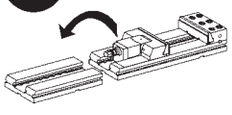
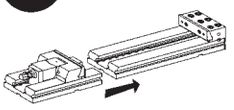
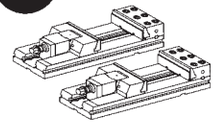
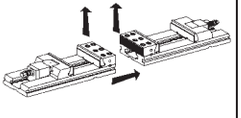
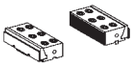
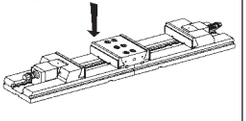
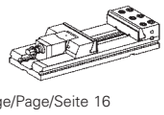
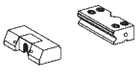
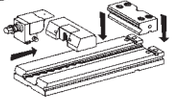
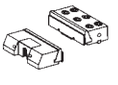
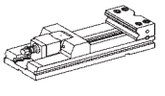
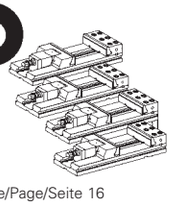
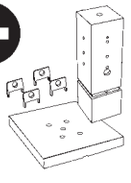
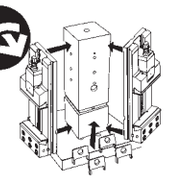
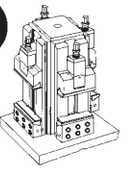
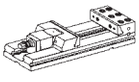
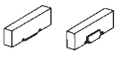
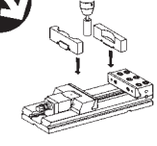
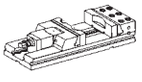
The advantages of modular workholders

Etre flexible avec les systèmes de serrage OML

Les avantages de la modularité

Variantenreich mit OML-Spannmitteln

Die Vorteile von modularen Spannmitteln

Start Départ Start	Add Ajout Plus	Combination Combinaison Kombination	Remove Retrait Minus	Result Résultat Resultat
Ref. CA 1  Page/Page/Seite 16				
Ref. CA 1  Page/Page/Seite 16			Ref. 580 ...  Page/Page/Seite 18	
Ref. CA 1  Page/Page/Seite 16	Ref. 580 ...  Page/Page/Seite 18			
Ref. CA 1  Page/Page/Seite 16				
Ref. CA 1  Page/Page/Seite 16	Ref. 580 ...  Page/PageSeite 24			

Operating instruction

Clamping the workpiece

For controlled clamping and the best repetibility use of a torque wrench is recommended:

- clamp the workpiece with the torque wrench
  at the necessary clamping force in accordance with the following diagram
- Zero set on the workpiece
- Machine the first workpiece
- Clamp the other workpieces at the same clamping force

Mode d'emploi

Serrage de la pièce à usiner

Pour un serrage contrôlé et une répétabilité optimale, l'utilisation d'une clé dynamométrique est recommandée:

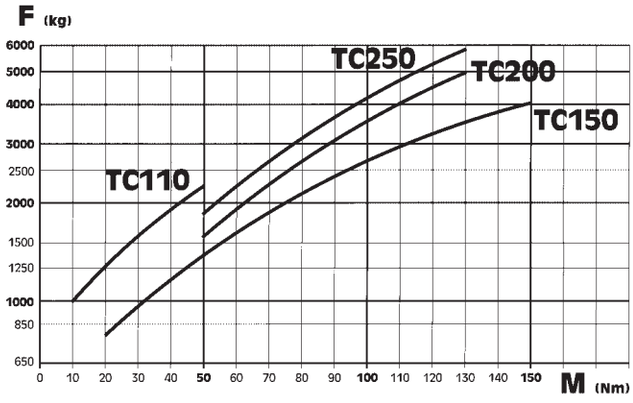
- Serrez la pièce avec la clé dynamométrique à la force de serrage nécessaire conformément au schéma suivant
- Mettez à zéro sur la pièce
- Usinez la première pièce
- Serrez les autres pièces à la même force de serrage

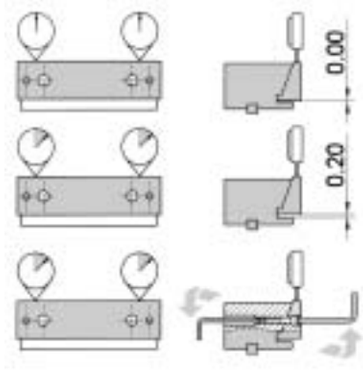
Bedienungsanweisung

Spannen von Werkstücken

Für kontrolliertes Klemmen und beste Wiederholbarkeit empfehlen wir die Verwendung eines Sechskantschlüssels:

- Klemmen Sie das Werkstück mit dem Sechskantschlüssel und der notwendigen Klemmkraft gemäss folgendem Schema
- Setzen Sie das Werkstück an den Ausgangspunkt
- Bearbeiten Sie das erste Werkstück
- Klemmen Sie die anderen Werkstücke mit der gleichen Klemmkraft





Jaw alignment

When it is necessary to replace the jaws in order to ensure the best part pull-down, we recommended the following steps:

1) make sure the jaws are properly secured to the support.
2) loosen the adjustment screws until the jaws are backed off about 0,2 mm (0,008") tighten the lock nuts located on the back side of the support in the opposite direction of the adjustment screws.

Ajustage des mors

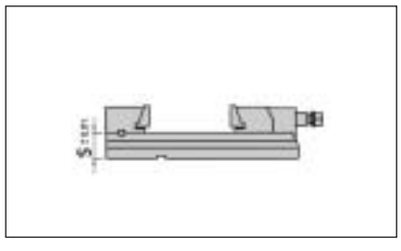
Lorsqu'il est nécessaire de remplacer les mors afin de garantir une traction descendante optimale de la pièce, nous vous recommandons de procéder comme suit:

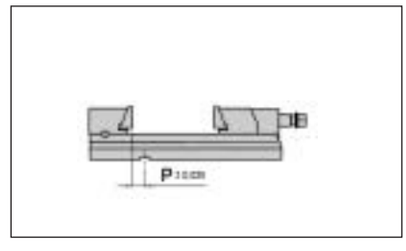
1) Veillez à ce que le mors soit correctement attaché au support.
2) Desserrez les vis de réglage jusqu'à ce que le mors soit dégagé de 0,2 mm environ. Serrez les contre-écrous situés à l'arrière du support dans le sens contraire aux vis de réglage.

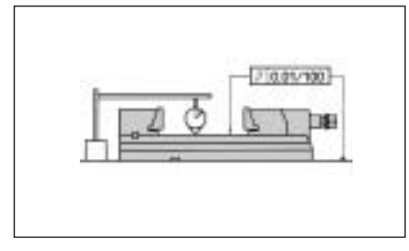
Ausrichten der Backen

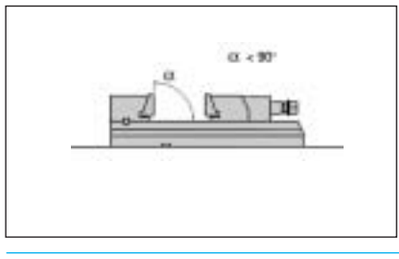
Falls es notwendig ist, die Klemmbacken auszutauschen, um die bestmögliche Absenkbewegung des Werkstücks sicherzustellen, empfehlen wir die folgenden Schritte:

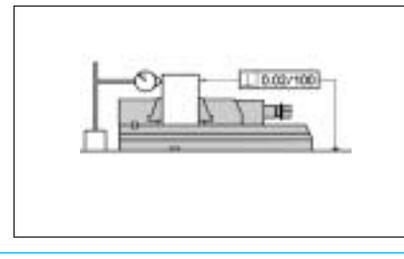
1) Stellen Sie sicher, dass die Klemmbacken richtig mit dem Unterlagsstück verbunden sind.
2) Lösen Sie die Passschrauben, bis die Klemmbacken ungefähr 0,2 mm geöffnet sind. Ziehen Sie die auf der Rückseite des Unterlagsstücks angebrachten Sicherungsmuttern in der gegenteiligen Richtung zu den Passschrauben fest.

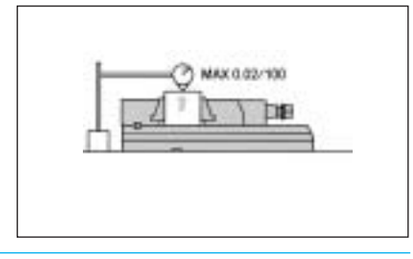








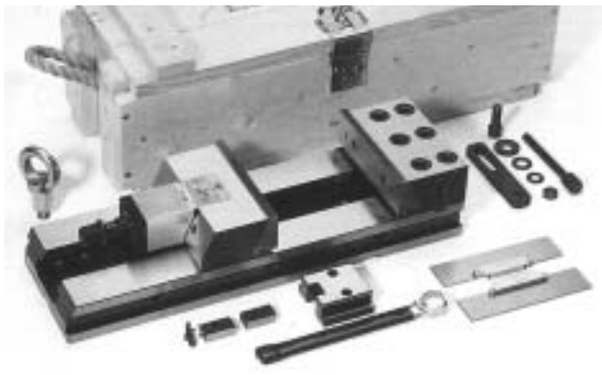


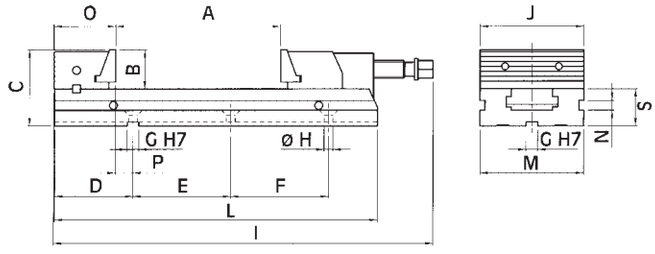


Modular precision pull down vice with adjustment slots

Etau de précision autoplaquant modulaire avec clavette de positionnement

Modularer Präzisions-Niederzug-Schraubstock mit Passnuten





Execution for grid plates when desired!

Exécution pour trame perforée sur demande!

Ausführung für Rasterbohrungen auf Wunsch!

Ref.	Mod.	Typ	A	B	C	D	E	F	G	H	I	J	L		
775 801 01	CA 1	TCt 110x100	100	40	78	80	150	—	12	9	338	110	280		
			M	**N**	**O**	**P**	**S**	**kg**							
CALIFORNIA 1			110	10	63	18	38	11,5							
Ref.	Mod.	Typ	A	B	C	D	E	F	G	H	I	J	L		
775 801 02	CA 2	TCt 110x150	150	40	78	80	100	100	12	9	388	110	330		
			M	**N**	**O**	**P**	**S**	**kg**							
CALIFORNIA 2			110	10	63	18	38	12,5							
Ref.	Mod.	Typ	A	B	C	D	E	F	G	H	I	J	L		
775 802 01	DA 1	TCt 150x200	200	50	98	114	200	—	18	12,5	481	150	413		
			M	**N**	**O**	**P**	**S**	**kg**							
DAKOTA 1			150	13	85	30	48	27							
Ref.	Mod.	Typ	A	B	C	D	E	F	G	H	I	J	L		
775 802 02	DA 2	TCt 150x250	250	50	98	114	100	150	18	12,5	531	150	463		
			M	**N**	**O**	**P**	**S**	**kg**							
DAKOTA 2			150	13	85	30	48	29							
Ref.	Mod.	Typ	A	B	C	D	E	F	G	H	I	J	L		
775 803 01	CO 1	TCt 200x250	250	70	138	149	150	150	18	12,5	647	200	560		
			M	**N**	**O**	**P**	**S**	**kg**							
COLORADO 1			200	15,5	123	27	68	74							
Ref.	Mod.	Typ	A	B	C	D	E	F	G	H	I	J	L		
775 803 02	CO 2	TCt 200x300	300	70	138	149	200	200	18	12,5	697	200	610		
			M	**N**	**O**	**P**	**S**	**kg**							
COLORADO 2			200	15,5	123	27	68	78							

Order example: 3 p. 775 801 01

Exemple de commande: 3 p. 775 801 01

Bestellbeispiel: 3 Stk. 775 801 01

Accessories page 18-21

CLAK modular parallels page 22-24

Accessoires page 18-21

CLAK cales parallèles page 22-24

Zubehör Seite 18-21

CLAK-Parallel-Unterlagen auf Seite 22-24

We recommend the use of a torque-control wrench for tightening torque see page 74

Nous recommandons l'utilisation d'une clé dynamométrique, moments de couple voir page 74

Wir empfehlen die Verwendung eines Drehmomentschlüssels Anzugsmomente Seite 74

Included in delivery:

standard wrench
rigid slide-way
floating slide-way
1 pair of positioning keys
1 pair of CLAK parallels
1 protectioncover for spindle
1 workpiec stop
1 eye bolt for lifting wooden packing case

Livraison comprenant:

Clé standard
Glissière oscillante
Glissière fixe
1 paire clavettes de positionnement
1 paire cales parallèles CLAK
1 protection de la vis de blocage
1 bûtée réglable
1 piton complet dans caisse en bois

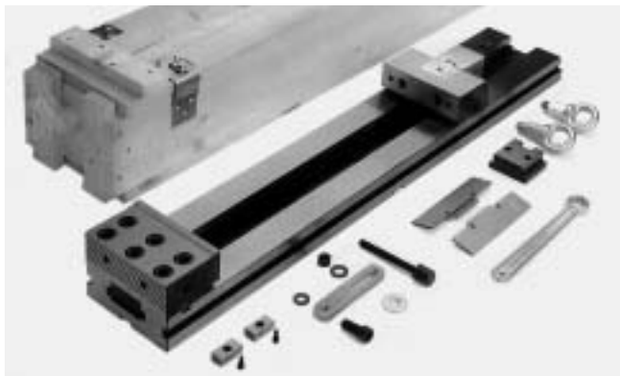
Lieferumfang:

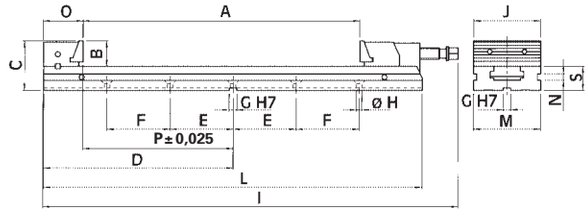
Standard-Schlüssel
Pendel-Führungsplatte
Feste Führungsplatte
1 Paar Passnutensteine
1 Paar CLAK-Parallel-Unterlagen
1 Spindelschutz
1 verstellbarer Werkstückanschlag
1 Transport-Ringschraube komplett in Holzkiste

Modular precision pull down vice, long

Etau de précision autoplaquant modulaire, long

Modularer Präzisions-Niederzug-Schraubstock, lang





Execution for gride plates when desired!

Exécution pour trame perforée sur demande!

Ausführung für Rasterbohrungen auf Wunsch!

Ref.	Typ	A	B	C	D	E	F	G	H	I	J	L
775 801 04	TCt-XL 110x425	425	40	78	300	100	100	12	9	658	110	600
		M	**N**	**O**	**P**	**S**	**kg**					
		110	10	63	238	3818						
Ref.	**Typ**	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**	**L**
775 802 04	TCt-XL 150x545	545	50	98	379	100	150	18	12,5	825	150	758
		M	**N**	**O**	**P**	**S**	**kg**					
		150	13	85	295	4840						
Ref.	**Typ**	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**	**L**
775 802 05	TCt-XL 150x665	665	50	98	439	100	200	18	12,5	946	150	878
		M	**N**	**O**	**P**	**S**	**kg**					
		150	13	85	355	4844,7						

Order example: 775 801 04

Exemple de commande: 3 p. 775 801 04

Bestellbeispiel: 3 Stk. 775 801 04

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Accessoires page 18-21

Zubehör Seite 18-21

CLAK modular parallels page 22-24

CLAK cales parallèles page 22-24

CLAK-Parallel-Unterlagen auf Seite 22-24

We recommend the use of a torque-control wrench for tightening torque see page 74

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Wir empfehlen die Verwendung eines Drehmomentschlüssels Anzugsmomente Seite 74

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Livraison comprenant:

Clé standard
Glissière oscillante
Glissière fixe
1 paire clavettes de positionnement
1 paire cales parallèles CLAK
1 protection de la vis de blocage
1 bûtée réglable
1 piton complet dans caisse en bois

Lieferumfang:

Standard-Schlüssel
Pendel-Führungsplatte
Feste Führungsplatte
1 Paar Passnutensteine
1 Paar CLAK-Parallel-Unterlagen
1 Spindelschutz
1 verstellbarer Werkstückanschlag
1 Transport-Ringschraube komplett in Holzkiste

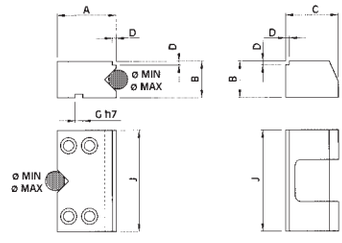
Accessories for modular precision pull down vice

Accessoires pour étau de précision autoplaquant modulaire

Zubehör für Modularere Präzisions-Niederzug-Schraubstöcke

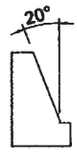
Pair of V-jaws
Mors spéciaux "V" par paire
Spezial-Prismengrundbacken, Paar

Ref.	for type / pour type / für Modell		
580 140 00	110 x ... CALIFORNIA		
580 240 00	150 x ... DAKOTA		
580 340 00	200 x ... COLORAD O		



Ref.	A	B	C	D	G	J	Min.	Max.	kg
580 140 00	63	38	56	4	8	110	10	24	3,1
580 240 00	85	48	75	5	12	150	15	38	7,2
580 340 00	123	68	110	5	14	200	20	48	21,5

Pair of smooth jaws
Mors lisses, par paire (autoplaquants)
Glatte Aufsatzbacken, Paar (Niederzug)

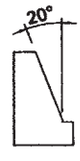


Ref.	for type / pour type / für Modell		
580 104 09	110 x ... CALIFORNIA		
580 204 09	150 x ... DAKOTA		
580 304 09	200 x ... COLORADO		

Moveable support with jaw
Support de mors fixe avec mors lisse (autoplaquants)
Bewegliches Backenlager mit glatter Aufsatzbacke (Niederzug)

Ref.	for type / pour type / für Modell		
580 173 10	110 x ... CALIFORNIA		
580 273 10	150 x ... DAKOTA		
580 373 10	200 x ... COLORADO		

Pair of grooved jaws
Mors striés, par paire (autoplaquants)
Gerillte Aufsatzbacken, Paar (Niederzug)



Ref.	for type / pour type / für Modell		
580 144 09	110 x ... CALIFORNIA		
580 244 09	150 x ... DAKOTA		
580 344 09	200 x ... COLORADO		

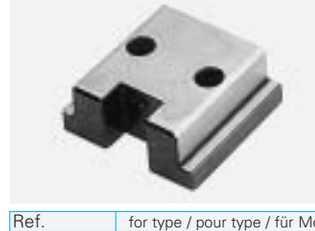
Floating slide-way
Glissière, pivotante, pour support de mors mobiles
Führungsstück, schwenkbar, für bewegliche Grundbacke

Ref.	for type / pour type / für Modell		
580 105 00	110 x ... CALIFORNIA		
580 205 00	150 x ... DAKOTA		
580 305 00	200 x ... COLORADO		

Fixed support with jaw
Support de mors fixe avec mors lisse (autoplaquants)
Festes Backenlager mit glatter Aufsatzbacke (Niederzug)

Ref.	for type / pour type / für Modell		
580 172 10	110 x ... CALIFORNIA		
580 272 10	150 x ... DAKOTA		
580 372 10	200 x ... COLORADO		

Rigid slide-way
Glissière guidée, pour support de mors mobiles
Führungsstück, geführt, für bewegliche Grundbacke



Ref.	for type / pour type / für Modell		
580 106 00	110 x ... CALIFORNIA		
580 206 00	150 x ... DAKOTA		
580 306 00	200 x ... COLORADO		

Accessories for modular precision pull down vice

Accessoires pour étau de précision autoplaquant modulaire

Zubehör für Modularere Präzisions-Niederzug-Schraubstöcke

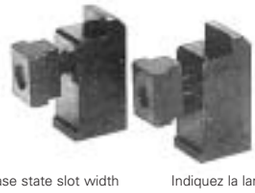
Fixed slide-way
Glissière pour support de mors fixe
Führungsstück für feste Grundbacke

Ref.	for type / pour type / für Modell		
580 107 00	CALIFORNIA		
580 207 00	DAKOTA		

Pair of keys for fixed support
Clavettes pour support de mors fixe (par paire)
Keile für festes Backenlager (per Paar)

Ref.	for type / pour type / für Modell		
580 114 09	CALIFORNIA		
580 214 09	DAKOTA		
580 314 09	COLORADO		

Pair of clamps
Brides de serrage (par paire)
Spannbriden komplett (per Paar)



Please state slot width Indiquez la largeur de la rainure svp. Bitte Nutenbreite angeben

Ref.	for type / pour type / für Modell		
580 127 92	CALIFORNIA (12, 14, 16, 18, 20)		
580 227 92	DAKOTA (12, 14, 16, 18, 20)		
580 327 93	COLORADO (14, 16, 18, 20, 22)		

Pair of T-nuts
Coulisseaux avec vis à tête conique (par paire)
Nutensteine mit Senkkopfschraube (per Paar)

Please state slot width Indiquez la largeur de la rainure svp. Bitte Nutenbreite angeben

Ref.	for type / pour type / für Modell		
580 125 92	CALIFORNIA (12, 14, 16, 18, 20)		
580 225 92	DAKOTA (12, 14, 16, 18, 20, 22)		
580 325 92	COLORADO (12, 14, 16, 18, 20, 22)		

Complete clamping block
Bloc à vis manuelle, complet
Spindelblock manuell, komplett

Ref.	for type / pour type / für Modell		
580 174 10	CALIFORNIA		
580 274 10	DAKOTA		
580 374 10	COLORADO		

Wrench
Clé de serrage, standard
Spannschlüssel, Standard

Ref.	for type / pour type / für Modell		
580 119 00	CALIFORNIA		
580 219 00	DAKOTA		
580 319 00	COLORADO		

Block for clamping screw
Bloc pour vis de serrage, manuel
Spindelblockgehäuse, manuell

Ref.	for type / pour type / für Modell		
580 112 10	CALIFORNIA		
580 212 10	DAKOTA		
580 312 10	COLORADO		

Clamping screw
Vis de blocage
Spannschraube (Spindel)

Ref.	for type / pour type / für Modell		
580 108 10	CALIFORNIA		
580 208 10	DAKOTA		
580 308 10	COLORADO		

Accessories for modular precision pull down vice

Accessoires pour étau de précision autoplaquant modulaire

Zubehör für Modularere Präzisions-Niederzug-Schraubstöcke

Bronze bushing
Ecrou pour vis de blocage, Bronze
Spindelmutter manuell, Bronze

Ref.	for type / pour type / für Modell		
580 109 00	CALIFORNIA		
580 209 00	DAKOTA		
580 309 00	COLORADO		

Contrast pin
Cheville d'arrêt
Arretierstifte

Ref.	for type / pour type / für Modell		
580 110 00	CALIFORNIA		
580 210 00	DAKOTA		
580 310 00	COLORADO		

Positioning plate
Plaquette de positionnement
Positionierkeil

Ref.	for type / pour type / für Modell		
580 111 10	CALIFORNIA		
580 211 10	DAKOTA		
580 311 10	COLORADO		

Pair of standard positioning keys
Clavettes des positionnement standard, par paire
Standard-Passnutensteine, Paar

Ref.	for type / pour type / für Modell	Th 6		
580 115 92	CALIFORNIA	12 mm		
580 215 95	DAKOTA / COLORADO	18 mm		

Pair of standard positioning keys
Clavettes de positionnement standard, par paire
Standard-Passnutensteine, Paar

Ref.	for type / pour type / für Modell	Th 6		
580 113 92	CALIFORNIA	12 mm		
580 213 95	DAKOTA / COLORADO	18 mm		

Work stop
Butée réglable
Werkstückanschlag, verstellbar

Ref.	for type / pour type / für Modell		
580 150 00	CALIFORNIA		
580 250 00	DAKOTA		
580 350 00	COLORADO		

Cover for protection of the screw
Protection de la vis de blocage, acier
Spindelschutzgehäuse, Stahl

Ref.	for type / pour type / für Modell		
580 128 10	CALIFORNIA		
580 228 10	DAKOTA		
580 328 10	COLORADO		

Insert for vertical use
Plaque d'arrêt de sécurité pour utilisation verticale
Sicherheitssperre für vertikale Systemanwendung

Ref.	for type / pour type / für Modell		
582 133 00	CALIFORNIA		
582 233 00	DAKOTA		
582 333 00	COLORADO		

Accessories for modular precision pull down vice

Accessoires pour étau de précision autoplaquant modulaire

Zubehör für Modularere Präzisions-Niederzug-Schraubstöcke

Torque wrench
Clé dynamométrique
Drehmomentschlüssel

Ref.	Nm	End with pawl / Embout à cliquet / Knarren	Nut / Douille / Nüsse			
Stahlwille 2L	4 - 20	9 x 12, 3/8", 1/2"	SW 17 / 22 / 27-1/2"	SW 18 / 22-3/8"		
Stahlwille 5	6 - 50	9 x 12, 3/8", 1/2"	SW 17 / 22 / 27-1/2"	SW 18 / 22-3/8"		
Stahlwille 10	20 - 100	9 x 12, 3/8", 1/2"	SW 17 / 22 / 27-1/2"	SW 18 / 22-3/8"		
Stahlwille 20	40 - 200	14 x 18, 1/2"	SW 17 / 22 / 27-1/2"			

Pair of positioning keys
Clavettes de positionnement spéciales, par paire (dégagées)
Spezial-Passnutensteine, per Paar (abgesetzt)

Please state slot width Indiquez la largeur de la rainure svp. Bitte Nutenbreite angeben

Ref.		for type / pour type / für Modell			
580 115 ...	(93) (94) (95) (96) (97)	CALIFORNIA	(14) (16) (18) (20) (22)		
580 215 ...	(92) (93) (94) (96) (97)	DAKOTA / COLORADO	(12) (14) (16) (20) (22)		
for turned pieces with spec. dimensions		pour base tournante avec dim. spéc.	für Drehteile mit spez. Dimensionen		

Pair of positioning keys
Clavettes de positionnement spéciales, par paire (dégagées)
Spezial-Passnutensteine, per Paar (abgesetzt)

Please state slot width Indiquez la largeur de la rainure svp. Bitte Nutenbreite angeben

Ref.		for type / pour type / für Modell			
580 113 ...	(93) (94) (95) (96) (97)	CALIFORNIA	(14) (16) (18) (20) (22)		
580 213 ...	(92) (93) (94) (96) (97)	DAKOTA / COLORADO	(12) (14) (16) (20) (22)		
with special dimensions		avec dimensions spéciales	mit spez. Dimensionen		

CLAK
modular parallels (pat.)

quick change of
- parallels
- angular parallels
- V-jaws
- soft jaws

multiple advantages:
a) quick change of parallels and jaws with a simple turn of hand.

b) Elimination of stops and fixtures increased accuracy of the machined part.

c) Like all OML products, also these parallels are heat treated and precision ground.

CLAK
cales parallèles (pat.)

changement rapide de
- cales parallèles
- cales prismatiques
- cales angulaires
- mors doux

Les avantages sont nombreux:
a) Changement rapide des cales d'étaux et des mâchoires.

b) Elimination de brides de fixation et d'arrêts grâce au système autoblocant breveté.

c) Augmentation de la précision de l'usinage.

Tous les composants sont traités et finement rectifiés suivant le label OML.

CLAK
Parallel-Unterlagen (pat.)

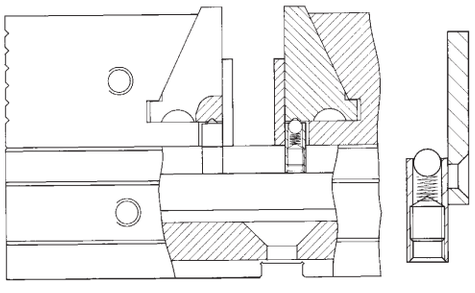
Schnellwechselsystem für
- Parallel-Unterlagen
- Winkel-Unterlagen
- Prismatische Unterlagen
- weiche Backen

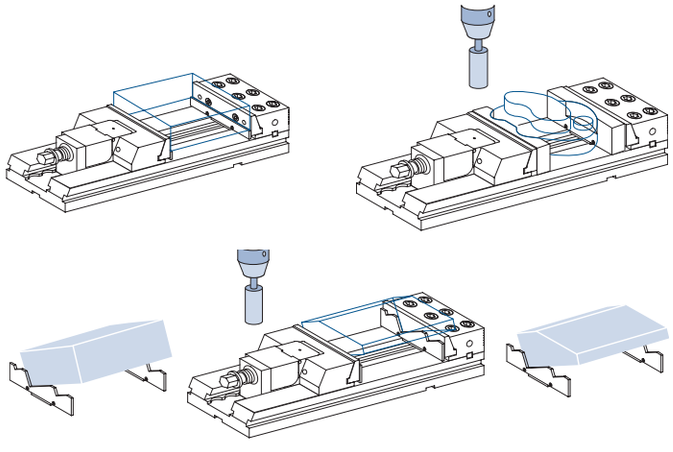
Dieses bietet viele Vorteile:
a) Schnelles Auswechseln von Parallelen und Backen mit einem einfachen Handgriff.

b) Wegfall von Spannvorrichtungen und Arretie-
rungen durch das patentierte Selbstarretierungssystem.

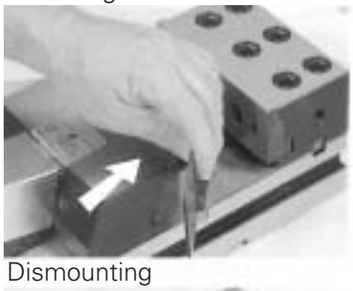
c) Höhere Arbeitsgenauigkeit.

Wie alle OML-Produkte sind auch diese Einsätze gehärtet und mit hoher Genauigkeit geschliffen.

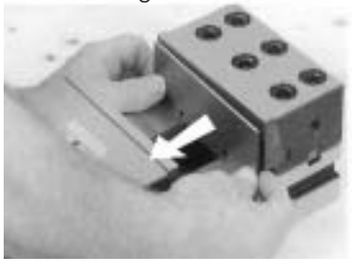




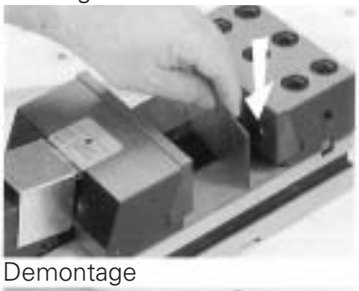
Mounting



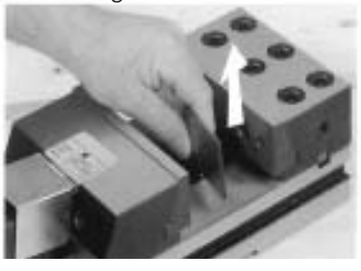
Dismounting



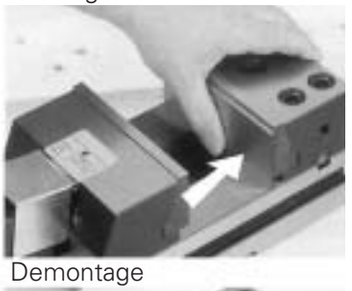
Montage



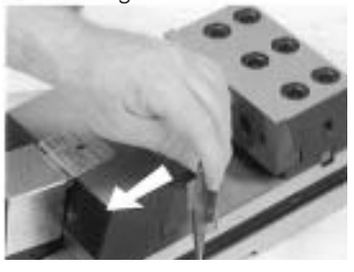
Demontage



Montage



Demontage



CLAK
modular parallels (pat.)

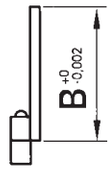
Standard-Set in wooden box 1 pair per height (B)

CLAK
cales parallèles (pat.)

Assortiments standard dans boîtes de rangement en bois une paire par dimension (B)

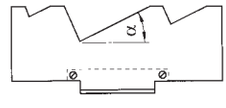
CLAK
Parallel-Unterlagen (pat.)

Standard-Sätze in Holzkasten Ein Paar je Abmessung (B)



Set in wooden box 1 pair per height — Assortiments boîte en bois, 1 paire par hauteur — Sätze in Holzkasten, 1 Paar je Höhe

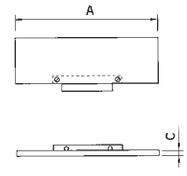
Ref.	Mod.	B (mm)											
580 192 06	**CALIFORNIA**	10	15	20	25	30	35	—	—	—	—		
580 192 10	**CALIFORNIA**	10	12	15	20	25	28	30	33	35	37		
580 292 06	**DAKOTA**	20	25	30	35	40	45	—	—	—	—		
580 292 10	**DAKOTA**	12	15	20	25	30	35	40	43	45	47		
580 392 06	**COLORADO**	20	30	40	50	60	65	—	—	—	—		
580 392 10	**COLORADO**	20	25	30	35	40	45	50	55	60	65		

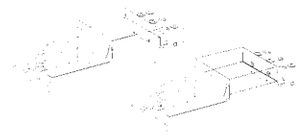


Set in wooden box 1 pair per angle — Assortiments boîte en bois, 1 paire par angle — Sätze in Holzkasten, 1 Paar je Winkel

Ref.	Mod.	α (mm)					
580 193 06	**CALIFORNIA**	20°	25°	30°	35°	40°	45°
580 293 06	**DAKOTA**	20°	25°	30°	35°	40°	45°
580 393 06	**COLORADO**	20°	25°	30°	35°	40°	45°

vb Ref.	Aluminum mounting plate to jaws Fixation pour machoires Alu-Halterung zu Backen CHF	
146DA	21.60	14.40
246CO	25.30	16.87
346CA	20.70	13.80





Parallels, paires — Cales d'étaux parallèles, par paire — Parallel-Unterlagen, per Paar

Ref.	Mod.	B	A	C		
580 135 10	**CALIFORNIA**	10	106	3		
580 135 12	**CALIFORNIA**	12				
580 135 15	**CALIFORNIA**	15				
580 135 20	**CALIFORNIA**	20				
580 135 25	**CALIFORNIA**	25				
580 135 28	**CALIFORNIA**	28				
580 135 30	**CALIFORNIA**	30				
580 135 33	**CALIFORNIA**	33				
580 135 35	**CALIFORNIA**	35				
580 135 37	**CALIFORNIA**	37				

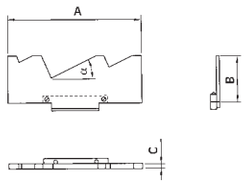
Ref.	Mod.	B	A	C		
580 335 20	**COLORADO**	20	196	4		
580 335 25	**COLORADO**	25				
580 335 30	**COLORADO**	30				
580 335 35	**COLORADO**	35				
580 335 40	**COLORADO**	40				
580 335 45	**COLORADO**	45				
580 335 50	**COLORADO**	50				
580 335 55	**COLORADO**	55				
580 335 60	**COLORADO**	60				
580 335 65	**COLORADO**	65				

Ref.	Mod.	B	A	C		
580 235 12	**DAKOTA**	12	146	3		
580 235 15	**DAKOTA**	15				
580 235 20	**DAKOTA**	20				
580 235 25	**DAKOTA**	25				
580 235 30	**DAKOTA**	30				
580 235 35	**DAKOTA**	35				
580 235 40	**DAKOTA**	40				
580 235 43	**DAKOTA**	43				
580 235 45	**DAKOTA**	45				
580 235 47	**DAKOTA**	47				

CLAK
modular parallels (pat.)

CLAK
cales parallèles (pat.)

CLAK
Parallel-Unterlagen (pat.)

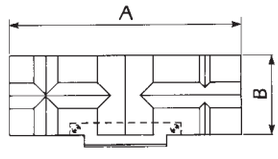


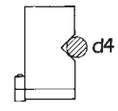
Angle shims, 1 pair — Cales angulaires, 1 paire — Winkel-Unterlagen, 1 Paar

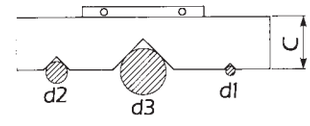
Ref.	Mod.	α	B	A	C
580 136 20	**CALIFORNIA**	20	106	40	4
580 136 25	**CALIFORNIA**	25			
580 136 30	**CALIFORNIA**	30			
580 136 35	**CALIFORNIA**	35			
580 136 40	**CALIFORNIA**	40			
580 136 45	**CALIFORNIA**	45			

Ref.	Mod.	α	B	A	C
580 336 20	**COLORADO**	20	196	70	5
580 336 25	**COLORADO**	25			
580 336 30	**COLORADO**	30			
580 336 35	**COLORADO**	35			
580 336 40	**COLORADO**	40			
580 336 45	**COLORADO**	45			

Ref.	Mod.	α	B	A	C
580 236 20	**DAKOTA**	20	146	50	4
580 236 25	**DAKOTA**	25			
580 236 30	**DAKOTA**	30			
580 236 35	**DAKOTA**	35			
580 236 40	**DAKOTA**	40			
580 236 45	**DAKOTA**	45			

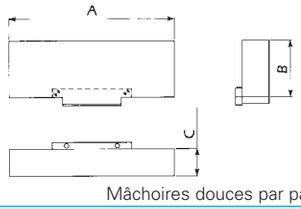






V-Jaws — Mâchoires en V — V-Backen

Ref.	Mod.	A	B	C	D_1 min.	D_1 max.	D_2 min.	D_2 max.	D_3 min.	D_3 max.	D_4 min.	D_4 max.
580 194 09	**CALIFORNIA**	106	40	30	3	6,5	6,5	15	15	35	7	16
580 294 09	**DAKOTA**	146	50	30	3	6,5	6,5	15	15	35	7	16
580 394 09	**COLORADO**	196	70	50	6	13	13	30	30	70	15	35



Soft jaws per pair — Mâchoires douces par paire — Weichbacken per Paar

Ref.	Mod.	A	B	C	
580 195 09	**CALIFORNIA**	106	40	19	Aluminium
580 295 09	**DAKOTA**	146	50	24	Aluminium
580 395 09	**COLORADO**	196	70	34	Aluminium
580 196 09	**CALIFORNIA**	106	40	19	Steel / Stahl / Acier
580 296 09	**DAKOTA**	146	50	24	Steel / Stahl / Acier
580 396 09	**COLORADO**	196	70	34	Steel / Stahl / Acier

GREMOTOOL®
Precision high-pressure machine vices

- Pre-settable clamping force ①
- Knuckle-joint force amplifier ②
- High repetition accuracy provided by controlled clamping force ③
- pre-settable 1 To – 4 To
- Maintenance-free clamping mechanism
- Horizontal and vertical operation
- Stable base construction
- Ground side and base surfaces

Optionally with vb Lock® pull-in bolts mounted.

Price on request.

GREMOTOOL®
Etaux machines de précision à haute pression

- force de serrage préréglable ①
- amplificateur de puissance par genouillère ②
- haute précision de répétition grâce à la force de serrage controlée ③
- préréglable de 1 To – 4 To
- mécanisme de serrage sans entretien
- utilisable horizontalement et verticalement
- corps extra rigide
- surfaces portantes rectifiées

En option avec tirettes vb Lock® directement dans l'étau.

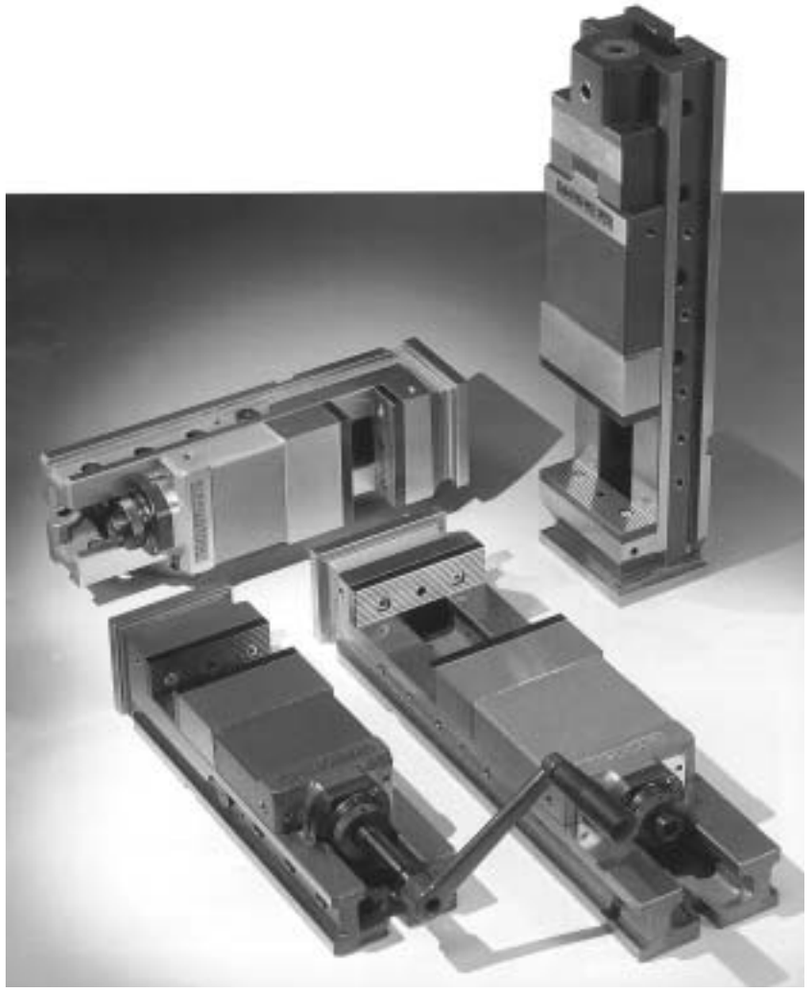
Prix sur demande.

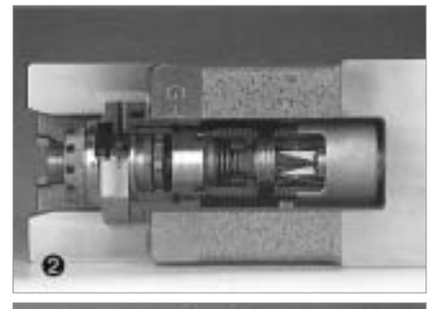
GREMOTOOL®
Präzisions-Hochdruck-Maschinenschraubstock

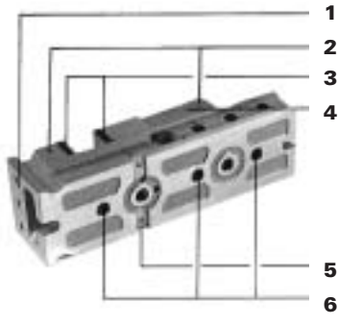
- Spannkraft vorwählbar ①
- Kniehebel-Kraftverstärker ②
- hohe Repetiergenauigkeit dank kontrollierter Spannkraft ③
- voreinstellbar 1 To – 4 To
- wartungsfreie Spannmechanik
- horizontal und vertikal einsetzbar
- stabile Grundausführung
- Seiten- und Grundflächen geschliffen

Auf Wunsch mit vb Lock® Spannbolzen direkt im Schraubstock.

Preis auf Anfrage.







1 Front face
2 Holes for workstop
3 Interchangeable clamping jaws
4 Movable clamping jaws
5 Transverse slots
6 Centering holes for longitudinal clamping and locator-grid system

1 face de devant
2 trous pour butée
3 mors interchangeables
4 support de mors mobile
5 rainures transversales
6 forages à centrer

1 Stirnseite
2 Bohrungen für Werkstückanschlag
3 Auswechselbare Spannbacken
4 Bewegliche Spannbacken
5 Quernuten
6 Zentrierbohrungen für Längsaufspannung und Lochrastersysteme

GREMOTOOL®
Precision machine vices

Standard version with finely grooved jaws, case hardened and ground, incl.handle

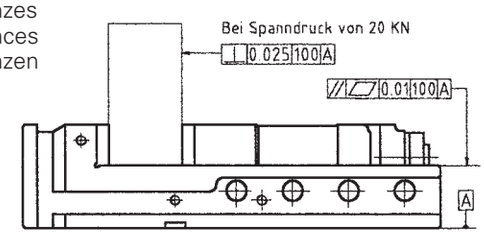
GREMOTOOL®
Etaux machines de précision à haute pression

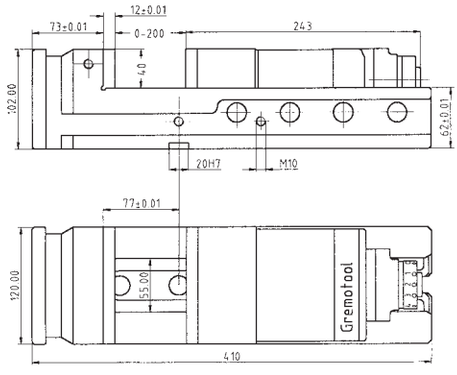
Exécution standard avec mors finement striés, trempés et rectifiés, manivelle comprise

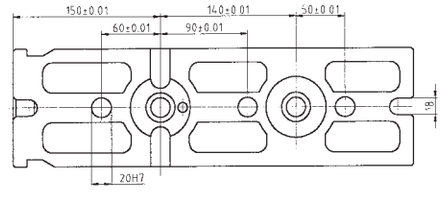
GREMOTOOL®
Präzisions-Hochdruck-Maschinenschraubstock

Standardausführung mit fein gerillten Backen, gehärtet und geschliffen, inkl. Handkurbel

Toleranzes
Tolérances
Toleranzen

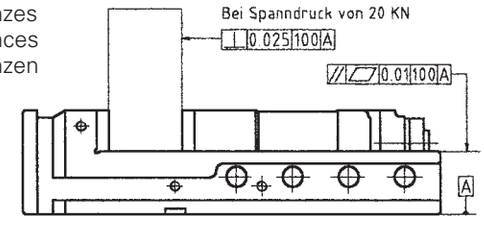


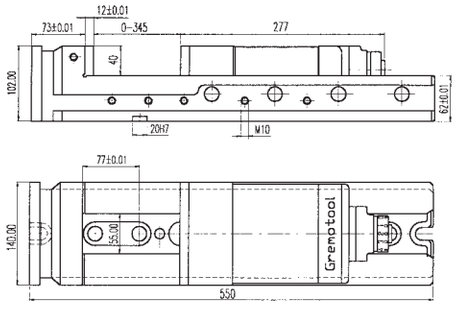


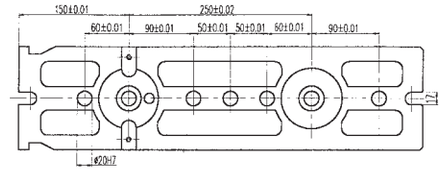


Ref.	Jaw width Largeur mâchoires Backenbreite	Clamping capacity Capacité de serrage Spannweite	kg		
GHS 120-200	120	200	21		

Toleranzes
Tolérances
Toleranzen







Ref.	Jaw width Largeur mâchoires Backenbreite	Clamping capacity Capacité de serrage Spannweite	kg		
GHS 140-345	140	345	31		

GREMOTOOL®
UNO-MILL vice

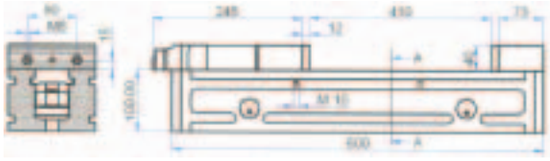
Machine vice suitable for CNC
Compact , non-deforming, stable design
No tension forces on basic body
Mechanical force amplifier
Clamping force can be preset to 10, 20, 30 and 40 kN
Large clamping area of 410 mm

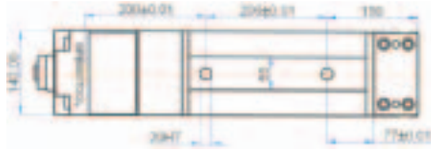
GREMOTOOL®
Etau UNO-MILL

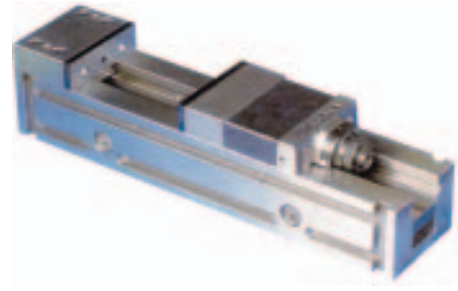
Etau machine compatible CNC
Construction stable, résistant à la déformation
Pas de forces de serrage sur l'élément de base
Amplificateur de force mécanique
Force de serrage préréglable 10, 20, 30 et 40 kN
Grande plage de serrage de 410 mm

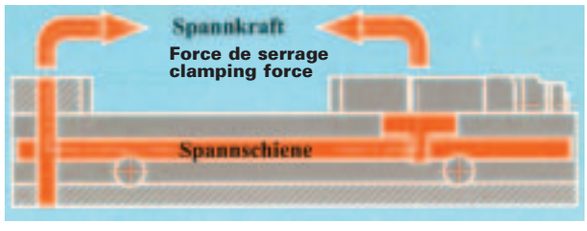
GREMOTOOL®
UNO-MILL Spanner

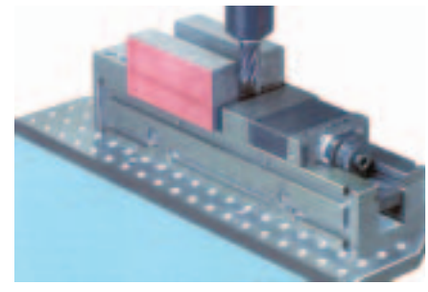
CNC-gerechter Maschinenschraubstock
Kompakte Bauart, Verformungsstabil
Keine Spannkräfte auf Grundkörper
Mechanischer Kraftverstärker
Spannkraft voreinstellbar 10, 20, 30 und 40 KN
Grosser Spannbereich 410 mm











Ref.		
UM 140-600		

GREMOTOOL®
DEUX-MILL vice

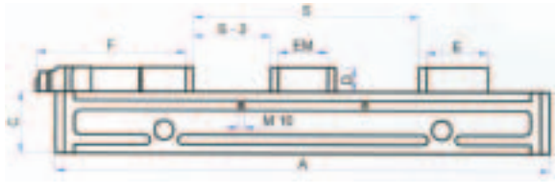
Stable design:
- Basic body ground on 4 sides
- Vertical, horizontal and side clamping
- Centering holes for longitudinal clamping and hole matrix systems

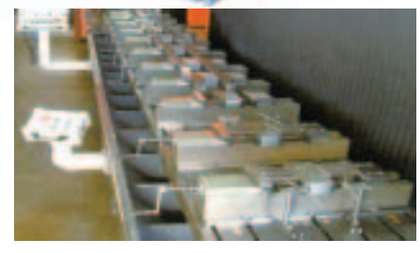
GREMOTOOL®
Etau DEUX-MILL DEUX-MILL

Exécution stable:
- Elément de base rectifié 4 faces
- Serrage vertical, horizontal et latéral
- Trous de centrage pour serrage longitudinal et systèmes à grilles de trous

GREMOTOOL®
DEUX-MILL Spanner

Stabile Ausführung:
- Grundkörper 4 - seitig geschliffen
- Vertikal, horizontal und seitliche Aufspannung
- Zentrierbohrungen für Längsaufspannung und Lochrastersysteme





Ref.	A	B	C	D	E	E-M	F	G	H	J	S	S-2	KG		
DMS-140-800	800	140	100	40	88	60	245	55	200	100	592	254	79 kg		
DMS-140-600	600	140	100	40	88	60	245	55	200	100	392	154	67 kg		

GREMOTOOL®
Special support, set-up block

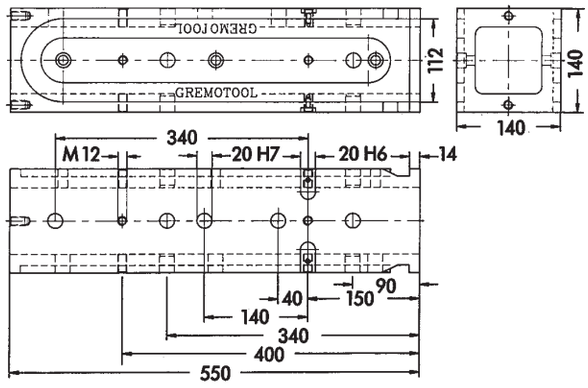
for GHS 140-345
bearing faces ground on all sides

GREMOTOOL®
Support spécial

pour GHS 140-345
surfaces portantes rectifiées

GREMOTOOL®
Spezial-Unterlage, Aufspannblock

für GHS 140-345
allseitig geschliffene Auflagen



Examples of applications **Exemples d'application** **Anwendungsbeispiele**

Ref.		
GBS 14-5500		

GREMOTOOL®
Two-piece precision machine vice

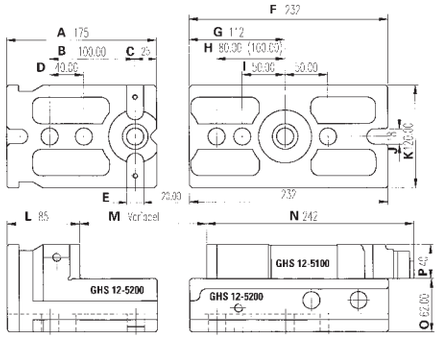
for oversized, non-parallel or round workpieces
on demand available also with 140 mm thickness!

GREMOTOOL®
Etau machines de précision en deux pièces

pour pièces à usiner extra grandes, non parallèles ou rondes
Disponible sur demande avec une largeur de mors de 140 mm

GREMOTOOL®
Zweiteiliger Präzisions Maschinenschraubstock

für übergrosse, unparallele oder runde Werkstücke
Auf Wunsch auch mit 140 mm Backenbreite erhältlich!



GHS 12-5100

GHS 12-5200 GHS 12-5200

Ref.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P		
GHS 12-5100	–	–	–	–	–	–	–	–	–	–	120	–	–	242	–	40		
GHS 12-5200	175	100	25	40	20	232	112	80/100	50	18	120	85	Var.	–	60	–		

GREMOTOOL®
Right-angle drive

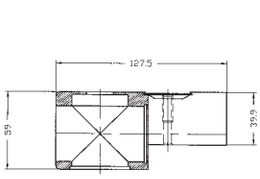
screw fitting

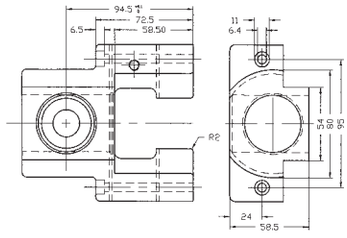
GREMOTOOL®
Commande par engrenage d'angle

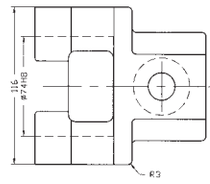
à visser

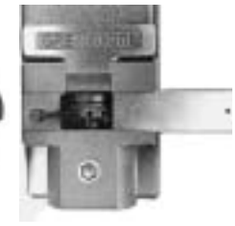
GREMOTOOL®
Winkeltrieb

aufschraubbar









Ref.		
GW 2500		

GREMOTOOL®
Accessories

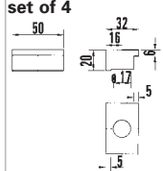
GREMOTOOL®
Accessoires

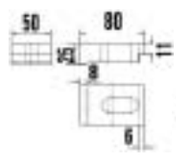
GREMOTOOL®
Zubehör

Clamps
set of 4

Brides
1 jeu = 4 pièces

Briden
1 Satz = 4 Stück





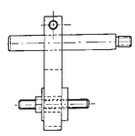
GB 1600 **GB 1600** **GB 1640** **GB 1640**

Ref.		
GB 1600		
GB 1640		
set of 4	**1 jeu=4 pièces**	**1Satz=4Stk.**

Workstop

Butée réglable

Werkstück-Anschlag

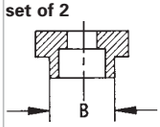


Ref.	
GA 1800	

Precision nuts
set of 2

Lardons de préc.
par paire

Präz. Nutensteine
1 Satz=2Stk.

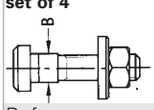


Ref.	**B**
GN 2001	12
GN 2002	14
GN 2003	16
GN 2004	18

Clamping bolts
set of 4

Vis de serrage
1 jeu=4 pièces

Aufspannschraube
1Satz=4Stk.

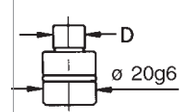


Ref.	**B**
GS 2101	12
GS 2102	14
GS 2103	16
GS 2104	18

Clamping studs for longitudinal clamping
set of 2

Goujon pour serrage longitudinale
par paire

Nutenbolzen für Längsaufspannung
1 Satz=2Stk.

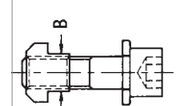


Ref.	**D**
GN 2201	12
GN 2202	14
GN 2203	16
GN 2204	18
GN 2205	20

Clamping bolt for longitudinal clamping
set of 2

Vis de serrage longitudinale
par paire

Aufspannschraube für Längsaufspannung
1 Satz=2Stk.

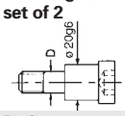


Ref.	**B**
GS 2301	12
GS 2302	14
GS 2303	16
GS 2304	18

Shoulder bolts for locator grid holes
set of 2

Vis de précision à épaulement
par paire

Schulterpassschraube für Lochrasterbohrungen
1 Satz=2Stk.

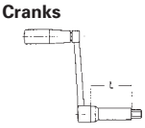


Ref.	**D**
GS 2401	12
GS 2402	14
GS 2403	16
GS 2404	18

Cranks

Manivelles

Handkurbel

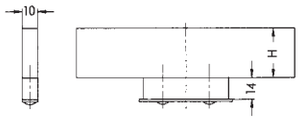


Ref.	**L**
GH 3001	25
GH 3002	80
GH 3003	120
GH 3004	190

GREMOTOOL®
Parallels, per pair

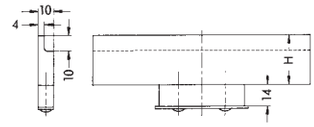
GREMOTOOL®
Cales d'étaux parallèles, par paire

GREMOTOOL®
Parallel-Unterlagen, per Paar



Ref.	for /pour /für	H		
GU 12-1901	GHS 120-200	36,5		
GU 12-1902	GHS 120-200	32,0		
GU 12-1903	GHS 120-200	28,5		
GU 12-1904	GHS 120-200	25,0		
GU 12-1905	GHS 120-200	20,5		
GU 12-1906	GHS 120-200	15,0		

Ref.	for /pour /für	H		
GU 14-1901	GHS 140-345	36,5		
GU 14-1902	GHS 140-345	32,0		
GU 14-1903	GHS 140-345	28,5		
GU 14-1904	GHS 140-345	25,0		
GU 14-1905	GHS 140-345	20,5		
GU 14-1906	GHS 140-345	15,0		



Ref.	for /pour /für	H		
GU 12-1911	GHS 120-200	35,5		
GU 12-1912	GHS 120-200	31,5		
GU 12-1913	GHS 120-200	27,5		
GU 12-1914	GHS 120-200	23,5		
GU 12-1915	GHS 120-200	19,5		
GU 12-1916	GHS 120-200	14,5		

Ref.	for /pour /für	H		
GU 14-1911	GHS 140-345	35,5		
GU 14-1912	GHS 140-345	31,5		
GU 14-1913	GHS 140-345	27,5		
GU 14-1914	GHS 140-345	23,5		
GU 14-1915	GHS 140-345	19,5		
GU 14-1916	GHS 140-345	14,5		

GREMOTOOL®
Jaws

GREMOTOOL®
Mors

GREMOTOOL®
Backen

Soft jaws **Mors doux** **Weiche Backen**

Ref.	for /pour /für		
GB 12-1410	GHS 120-200		

Standard jaws **Mors standard** **Standard Backen**
Case hardened and ground, with fine grooves
trempés, rectifiés finement striés
Gehärtet und geschliffen mit feinen Rillen

Ref.	for /pour /für		
GB 12-1420	GHS 120-200		

Prismatic jaws **Mors prismatiques** **Prisma Backen**
Smooth jaws
Mors lisse
Glatte Backen

Ref.	for /pour /für		
GB 12-1430	GHS 120-200		

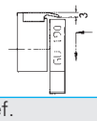
Prismatic jaws **Mors prismatiques** **Prisma Backen**

Ref.	for /pour /für		
GB 12-1432	GHS 120-200		

Spring blade lowprofile jaws **Mors autoplaquants à lame ressort** **Federblatt-Tiefspannbacken**

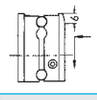
Ref.	for /pour /für		
GB 12-1440	GHS 120-200		

Low-profile clamping jaws for thin workpiece **Mors autoplaquants pour pièces minces** **Tiefspannbacken für dünne Werkstücke**



Ref.	for /pour /für		
GB 12-1450	GHS 120-200		

Precision low-heigt clamping jaws **Mors autoplaquants de précision** **Präzisions-Tiefspannbacke**



Ref.	for /pour /für		
GB 12-1460	GHS 120-200		

Soft jaws **Mors doux** **Weiche Backen**

Ref.	for /pour /für		
GB 14-1410	GHS 140-345		

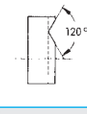
Standard jaws **Mors doux** **Standard Backen**
Case hardened and ground, with fine grooves
trempés, rectifiés finement striés
Gehärtet und geschliffen mit feinen Rillen

Ref.	for /pour /für		
GB 14-1420	GHS 140-345		

Prismatic jaws **Mors prismatiques** **Prisma Backen**
Smooth jaws
Mors lisse
Glatte Backen

Ref.	for /pour /für		
GB 14-1430	GHS 140-345		

Prismatic jaws **Mors prismatiques** **Prisma Backen**

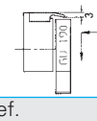


Ref.	for /pour /für		
GB 14-1432	GHS 140-345		

Spring blade lowprofile jaws **Mors autoplaquants à lame ressort** **Federblatt-Tiefspannbacken**

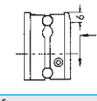
Ref.	for /pour /für		
GB 14-1440	GHS 140-345		

Low-profile clamping jaws for thin workpiece **Mors autoplaquants pour pièces minces** **Tiefspannbacken für dünne Werkstücke**



Ref.	for /pour /für		
GB 14-1450	GHS 140-345		

Precision low-height clamping jaws **Mors autoplaquants de précision** **Präzisions-Tiefspannbacke**

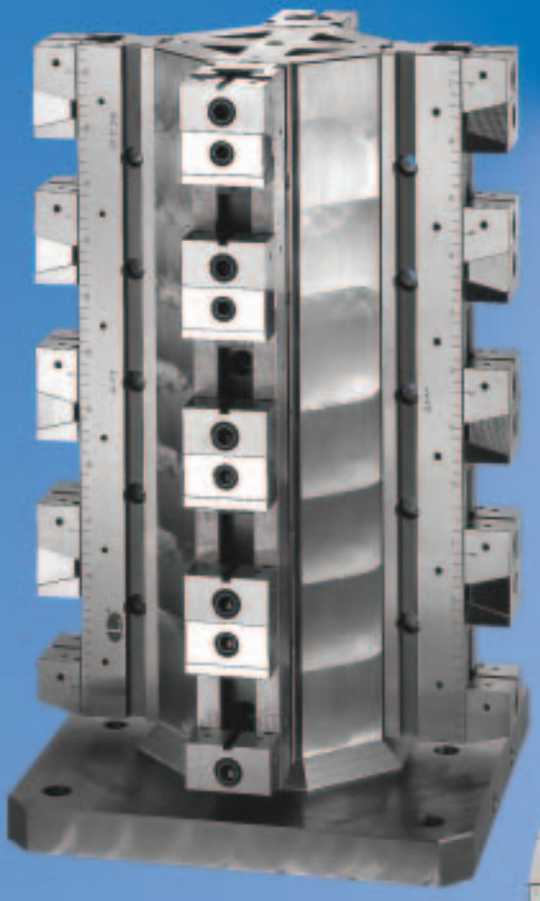


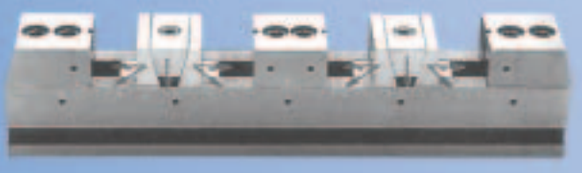
Ref.	for /pour /für		
GB 14-1460	GHS 140-345		

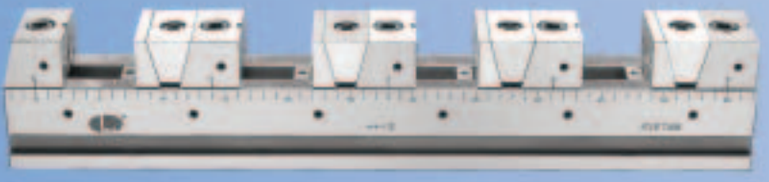
Modular line-up vices
Clamping cube

Système modulaire à serrage multiple, cubes

Mehrfachspanner Spanntürme







Modular multi-way clamp

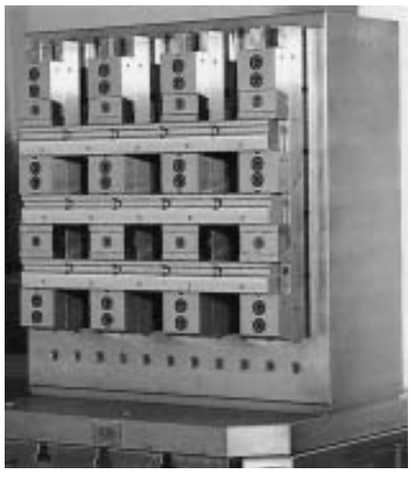
With zero-point alignment from both sides
With zero-point alignment from one sides

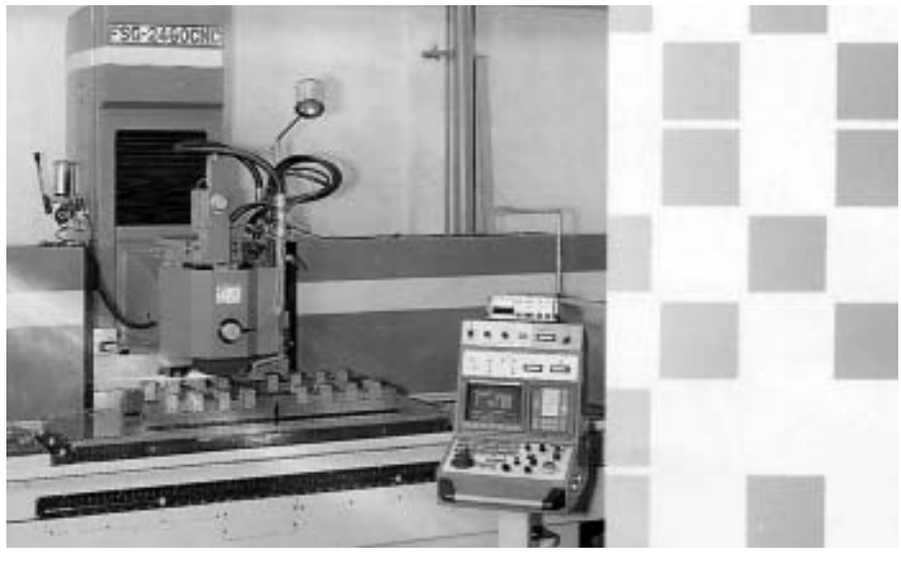
Système de serrage modulaire

Avec orientation du point zéro des deux côtés
Avec orientation de point zéro d'un côté

Modularer Mehrfach-Spanner

Mit beidseitiger Nullpunktorientierung
Mit einseitiger Nullpunktorientierung





Examples of possible combinations

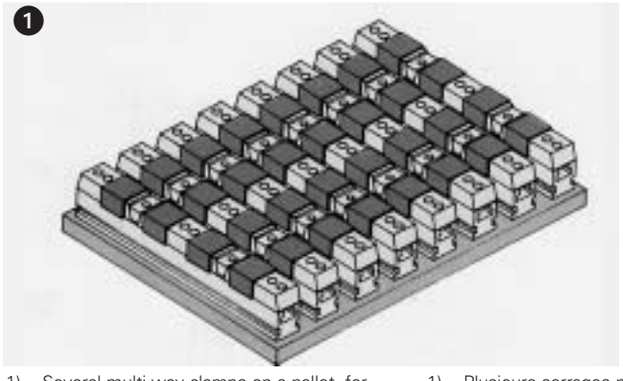
With zero-point alignment from both sides
With zero-point alignment from one sides

Exemples de possibilités de combinaisons

Avec orientation du point zéro des deux côtés
Avec orientation de point zéro d'un côté

Beispiele von Kombinations-möglichkeiten

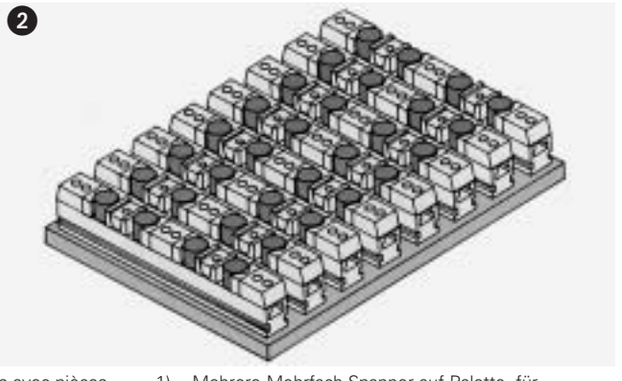
Mit beidseitiger Nullpunktorientierung
Mit einseitiger Nullpunktorientierung

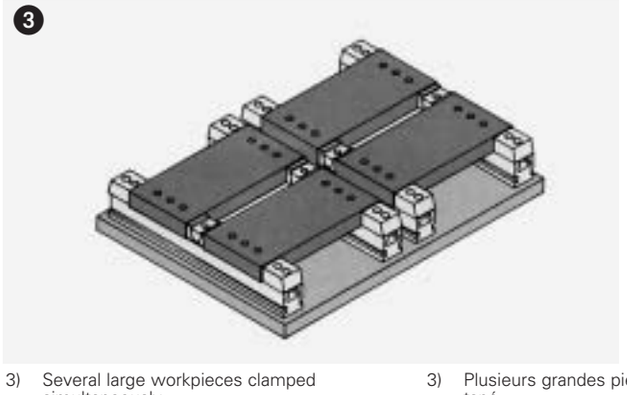


1) Several multi-way clamps on a pallet, for rectangular workpieces
2) Round workpieces clamped with V-jaws

1) Plusieurs serrages modulaires avec pièces à usiner rectangulaires sur palette
2) Pièces à usiner rondes, serrées avec mors «V»

1) Mehrere Mehrfach-Spanner auf Palette, für winklige Werkstücke
2) Runde Werkstücke mit V-Backen gespannt

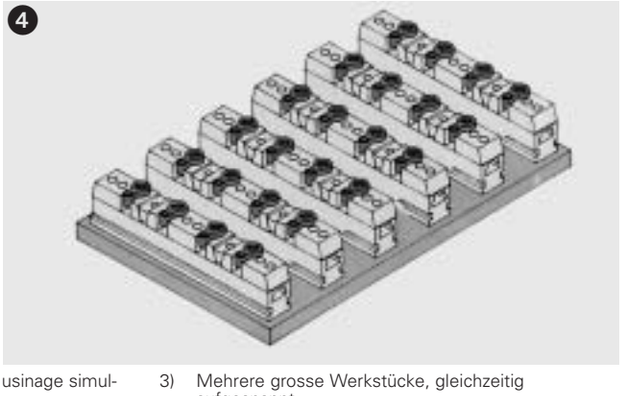




3) Several large workpieces clamped simultaneously
4) Irregular workpieces clamped with appropriately shaped soft jaws

3) Plusieurs grandes pièces en usinage simultané
4) Pièces à usiner asymétriques, serrées avec mors doux façonnés

3) Mehrere grosse Werkstücke, gleichzeitig aufgespannt
4) Unregelmässige Werkstücke, gespannt mit entsprechend geformten weichen Backen



Reference to vb Lock®

in combination with the vb Lock® rapide clamping system

Renvoi à vb Lock®

en combinaison avec le système de serrage rapide vb Lock®

Hinweis auf vb Lock®

in Kombination mit dem vb Lock® Schnellspannsystem

Typ FLE
Zero-point alignment from both sides

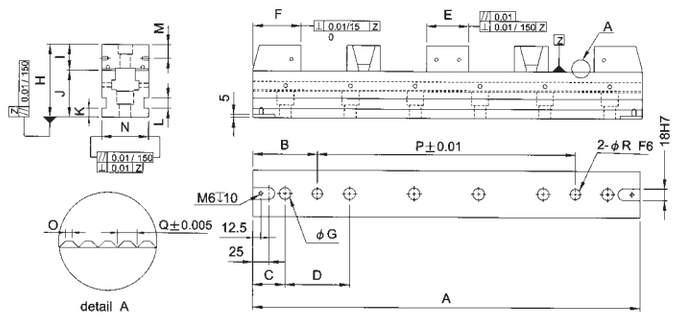
For tightening torque see page 74

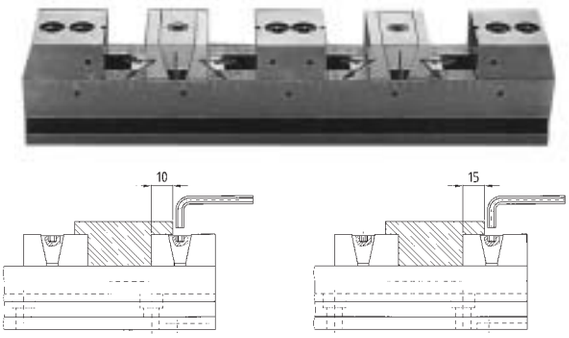
Typ FLE
Orientation du point zéro des deux côtés

Moments de couple voir page 74

Typ FLE
Beidseitige Nullpunktorientierung

Anzugsmomente siehe Seite 74





Price for 4 clamping stations except for FLE 7240
Prix pour 4 serrages excepté FLE 7240
Preis für 4-fach-Spanner, ausser FLE 7240

for ..... 50 mm
pour .....50 mm
für Breite 50 mm

for ..... 72 mm
pour .....72 mm
für Breite 72 mm

Ref.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	kg		
772-										±0,01							±0,005	F6			
FLE 5030	300	70	30	80	44	50	13	75	25	50	10	12	10	50	0,5	160	1,5	12	7		
772-																					
FLE 5040	400	80	40	80	44	50	13	75	25	50	10	12	10	50	0,5	240	1,5	12	9		
772-																					
FLE 5050	500	90	50	80	44	50	13	75	25	50	10	12	10	50	0,5	320	1,5	12	10		
772-																					
FLE 5060	600	100	60	80	44	50	13	75	25	50	10	12	10	50	0,5	400	1,5	12	11		
772-																					
FLE 5070	700	110	70	80	44	50	13	75	25	50	10	12	10	50	0,5	480	1,5	12	14		
772-																					
FLE 7240	400	100	50	100	65	75	17	110	40	72	14	16	15	72	0,7	200	2	16	19		
772-																					
FLE 7250	500	100	50	100	65	75	17	110	40	72	14	16	15	72	0,7	300	2	16	25		
772-																					
FLE 7260	600	100	50	100	65	75	17	110	40	72	14	16	15	72	0,7	400	2	16	27		
772-																					
FLE 7270	700	100	50	100	65	75	17	110	40	72	14	16	15	72	0,7	500	2	16	30		

Ref.	1 workpieces/ 1 pièce 1 Werkstück	2 workpieces/ 2 pièces 2 Werkstücke	3 workpieces/ 3 pièces 3 Werkstücke	4 workpieces/ 4 pièces 4 Werkstücke	5 workpieces/ 5 pièces 5 Werkstücke
FLE 5030	175 mm	82 mm	32 mm	20 mm	—
FLE 5040	275 mm	130 mm	65 mm	46 mm	—
FLE 5050	375 mm	180 mm	96 mm	71 mm	—
FLE 5060	475 mm	235 mm	130 mm	95 mm	60 mm
FLE 5070	575 mm	285 mm	163 mm	120 mm	80 mm
FLE 7240	215 mm	100 mm	35 mm	—	—
FLE 7250	315 mm	150 mm	65 mm	45 mm	—
FLE 7260	415 mm	200 mm	100 mm	70 mm	—
FLE 7270	518 mm	250 mm	134 mm	96 mm	56 mm

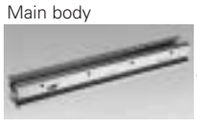
Ref.	6 workpieces/ 6 pièces 6 Werkstücke	7 workpieces/ 7 pièces 7 Werkstücke	8 workpieces/ 8 pièces 8 Werkstücke	9 workpieces/ 9 pièces 9 Werkstücke
FLE 5030	—	—	—	—
FLE 5040	—	—	—	—
FLE 5050	—	—	—	—
FLE 5060	50 mm	30 mm	25 mm	15 mm
FLE 5070	66 mm	44 mm	37 mm	26 mm
FLE 7240	—	—	—	—
FLE 7250	—	—	—	—
FLE 7260	—	—	—	—
FLE 7270	44 mm	24 mm	19 mm	—

Spares for FLE

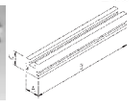
Pièces de rechange FLE

Ersatzteile Typ FLE

Main body



Base

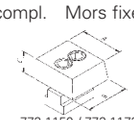


Grundkörper

Ref.	A	B	C		
772-1053	50	300	50		
772-1054	50	400	50		
772-1055	50	500	50		
772-1056	50	600	50		
772-1057	50	700	50		
772-1074	72	400	72		
772-1075	72	500	72		
772-1076	72	600	72		
772-1077	72	700	72		

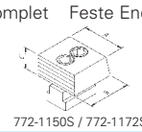
Fixed mouthpiece, compl.

Mors fixe, complet



772-1150 / 772-1172

Feste Endbacke, komplett

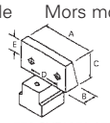


772-1150S / 772-1172S

Ref.	A	B	C		
772-1150	50	50	25		
772-1150S	50	50	25		
772-1172	72	74	40		
772-1172S	72	74	40		

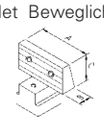
Single bevel moveable mouthpiece set

Mors mobile, complet



772-SVF1250 / 772-SVF1272

Bewegliche Backe kompl.

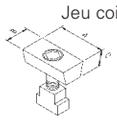


772-1250S / 772-1272S

Ref.	A	B	C	D	E		
772-SVF 1250	50	12	25	30	12,5		
772-1250S	50	12	25	30	12,5		
772-SVF 1272	72	18	40	44	21,5		
772-1272S	72	18	40	44	21,5		

Wedge set

Jeu coin, complet

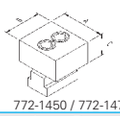


Keilsatz komplett

Ref.	A	B	C		
772-1350	50	22,5	18		
772-1372	72	35	29		

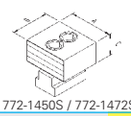
Fixed mouthpiece set

Butée fixe



772-1450 / 772-1472

Fester Endanschlag

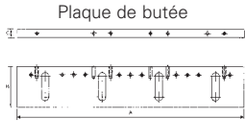


772-1450S / 772-1472S

Ref.	A	B	C		
772-1450	50	44	25		
772-1450S	50	44	25		
772-1472	72	65	40		
772-1472S	72	65	40		

Datum plane plate

Plaque de butée

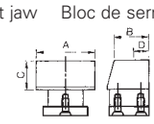


Anschlagschiene

Ref.	A	B ± 0,02	C		
772-01 503	300	53	15		
772-01 504	400	53	15		
772-01 505	500	53	15		
772-01 724	400	75	15		
772-01 725	500	75	15		
772-01 726	600	75	15		

Calmping plane soft jaw

Bloc de serrage doux

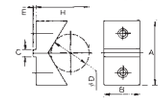


Spannblock, weich

Ref.	A	B	C	D		
772-03 500	50	20	25	13		
772-03 720	72	26	40	19		

V jaw

Mors "V"

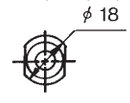


V-Backe

Ref.	A	B	C	D	E	H	forø		
772-04 500	50	25	5	32	2	44,2	70		
772-04 720	72	40	8	42	3	60,9	110		

Datum plane pad

Douilles de distance pour plaque de butée



Distanzröhre für Anschlagschiene

Ref.	Length/Longueur/Länge		
772-507 2A	10 = 0,01		
772-507 2B	15 = 0,01		
772-507 2C	23 = 0,01		

Safety stop (vertical)

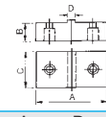
Arrêt de sécurité (vertical)

Sicherheitssperre (vertikal)

Ref.	**Typ**		
772-0053	Sicherheitssperre (vertikal) Arrêt de sécurité (vertical) Safety stop (vertical)		
772-0073	Sicherheitssperre (vertikal) Arrêt de sécurité (vertical) Safety stop (vertical)		

Datum plane soft jaw

Mors doux

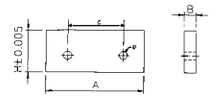


weiche Backe

Ref.	A	B	C	D h7		
772-02 500	50	17	25	5		
772-02 720	72	19	40	8		

Supporting block

Cale



Unterlage

Ref.	A	B	C	D	H		
772-06-5017	49,5	5	30	6	17		
772-06-5020	49,5	5	30	6	20		
772-06-5022	49,5	3	30	6	22		
772-06-7225	71,5	5	44	7	25		
772-06-7230	71,5	5	44	7	30		
772-06-7235	71,5	5	44	7	35		
772-06-7237	71,5	3	44	7	37		

Typ SVF
Zero-point alignment on one side

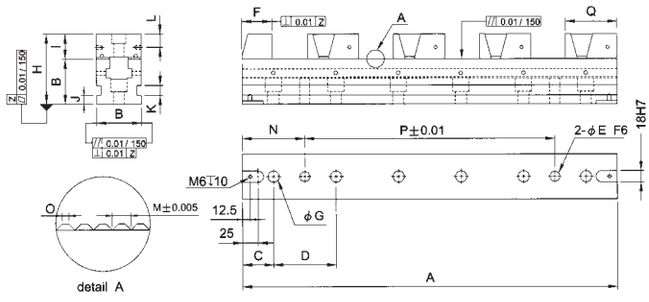
For tightening torque see page 74

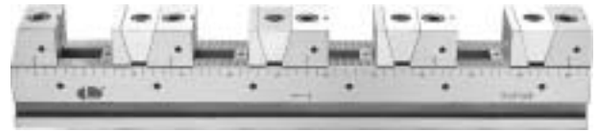
Typ SVF
Orientation du point zéro d'un côté

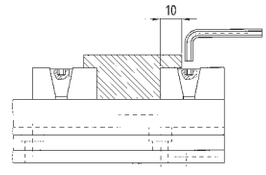
Monments de couple voir page 74

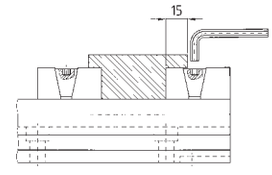
Typ SVF
Einseitige Nullpunktorientierung

Anzugsmomente siehe Seite 74









Price for 4 clamping stations except for SVF 5030, SVF 7240
Prix pour 4 serrages excepté SVF 5030, SVF 7240
Preis für 4-fach-Spanner, ausser SVF 5030, SVF 7240

for ..... 50 mm
pour .....50 mm
für Breite 50 mm

for ..... 72 mm
pour .....72 mm
für Breite 72 mm

Ref.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	kg		
772-		±0,01															±0,005			
SVF 5030	300	50	30	80	12	36	13	75	25	10	12	10	1,5	70	0,5	160	60	7		
772- SVF 5040	400	50	40	80	12	36	13	75	25	10	12	10	1,5	80	0,5	240	60	9		
772- SVF 5050	500	50	50	80	12	36	13	75	25	10	12	10	1,5	90	0,5	320	60	10		
772- SVF 5060	600	50	60	80	12	36	13	75	25	10	12	10	1,5	100	0,5	400	60	11		
772- SVF 5070	700	50	70	80	12	36	13	75	25	10	12	10	1,5	110	0,5	480	60	14		
772- SVF 7240	400	72	50	100	16	48	17	110	40	14	16	15	2,0	100	0,7	200	82	19		
772- SVF 7250	500	72	50	100	16	48	17	110	40	14	16	15	2,0	100	0,7	300	82	25		
772- SVF 7260	600	72	50	100	16	48	17	110	40	14	16	15	2,0	100	0,7	400	82	27		
772- SVF 7270	700	72	50	100	16	48	17	110	40	14	16	15	2,0	100	0,7	500	82	30		

Ref.	1 workpiece/ 1 pièce 1 Werkstück	2 workpieces/ 2 pièces 2 Werkstücke	3 workpieces/ 3 pièces 3 Werkstücke	4 workpieces/ 4 pièces 4 Werkstücke
SVF 5030	203 mm	71 mm	27 mm	—
SVF 5040	303 mm	121 mm	60 mm	30 mm
SVF 5050	403 mm	171 mm	94 mm	55 mm
SVF 5060	503 mm	221 mm	127 mm	80 mm
SVF 5070	603 mm	271 mm	160 mm	105 mm
SVF 7240	269 mm	93 mm	35 mm	—
SVF 7250	369 mm	143 mm	68 mm	30 mm
SVF 7260	469 mm	193 mm	101 mm	55 mm
SVF 7270	569 mm	243 mm	135 mm	80 mm

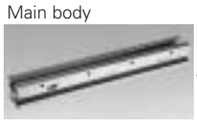
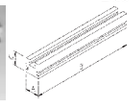
Ref.	5 workpieces/ 5 pièces 5 Werkstücke	6 workpieces/ 6 pièces 6 Werkstücke	7 workpieces/ 7 pièces 7 Werkstücke
SVF 5030	—	—	—
SVF 5040	—	—	—
SVF 5050	32 mm	—	—
SVF 5060	52 mm	33 mm	—
SVF 5070	72 mm	50 mm	34 mm
SVF 7240	—	—	—
SVF 7250	—	—	—
SVF 7260	28 mm	—	—
SVF 7270	48 mm	26 mm	—

Spares for SVF

Pièces de rechange SVF

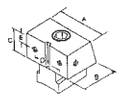
Ersatzteile Typ SVF

Main body — Base — Grundkörper

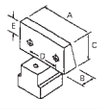
Ref.	A	B	C		
772-1053	50	300	50		
772-1054	50	400	50		
772-1055	50	500	50		
772-1056	50	600	50		
772-1057	50	700	50		
772-1074	72	400	72		
772-1075	72	500	72		
772-1076	72	600	72		
772-1077	72	700	72		

Fixed mouthpiece set — Pièce de rechange — Feste Backe



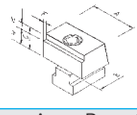
Ref.	A	B	C	D	E		
772-SVF-1155	50	35	25	30	12,5		
772-SVF-1175	72	48	40	44	21,5		

Single bevel moveable mouthpiece set — Mors mobile, complet — Bewegliche Backe kompl.



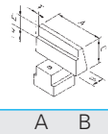
Ref.	A	B	C	D	E		
772-SVF-1250	50	12	25	30	12,5		
772-SVF-1272	72	18	40	44	21,5		

Fixed mouthpiece set — Pièce de rechange — Feste Backe



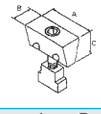
Ref.	A	B	C	F ±0,01	H ±0,01		
772-SVF-1156	50	35	25	2	23		
772-SVF-1157	50	35	25	2	20		
772-SVF-1176	72	48	40	2	38		
772-SVF-1177	72	48	40	2	35		

Single bevel moveable mouthpiece set — Mors mobile, complet — Bewegliche Backe, kompl.



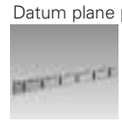
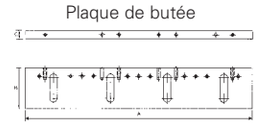
Ref.	A	B	C	F	H ±0,01		
772-SVF-1256	50	12	25	2	23		
772-SVF-1257	50	12	25	2	20		
772-SVF-1276	72	18	40	2	38		
772-SVF-1277	72	18	40	2	35		

Wedge set — Jeu coin, complet — Keilsatz, komplett



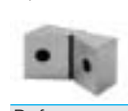
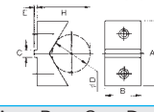
Ref.	A	B	C		
772-SVF-1350	50	24	22		
772-SVF-1372	72	35	35		

Datum plane plate — Plaque de butée — Anschlagschiene

Ref.	A	B ± 0,02	C		
772-01 503	300	53	15		
772-01 504	400	53	15		
772-01 505	500	53	15		
772-01 724	400	75	15		
772-01 725	500	75	15		
772-01 726	600	75	15		

V jaw — Mors "V" — V-Backe

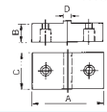



Ref.	A	B	C	D	E	H	forø		
772-04 500	50	25	5	32	2	44,2	70		
772-04 720	72	40	8	42	3	60,9	110		

Datum plane pad — Douilles de distance pour plaque de butée ϕ 18 — Distanzröhre für Anschlagschiene

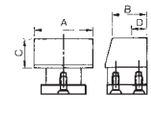
Ref.	Length/Longueur/Länge		
772-507 2A	10 = 0,01		
772-507 2B	15 = 0,01		
772-507 2C	23 = 0,01		

Datum plane soft jaw — Mors doux — weiche Backe



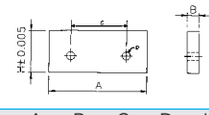
Ref.	A	B	C	D h7		
772-02 500	50	17	25	5		
772-02 720	72	19	40	8		

Clamping plane soft jaw — Bloc de serrage doux — Spannblock, weich



Ref.	A	B	C	D		
772-SVF-03 500	50	20	25	13		
772-SVF-03 720	72	26	40	19		

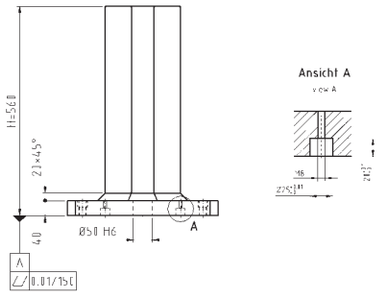
Supporting block — Cale — Unterlage



Ref.	A	B	C	D	H		
772-06-5017	49,5	5	30	6	17		
772-06-5020	49,5	5	30	6	20		
772-06-5022	49,5	3	30	6	22		
772-06-7225	71,5	5	44	7	25		
772-06-7230	71,5	5	44	7	30		
772-06-7235	71,5	5	44	7	35		
772-06-7237	71,5	3	44	7	37		

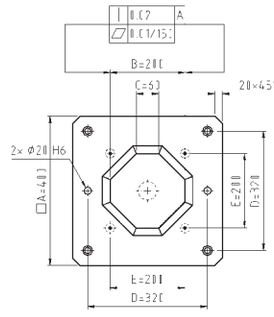
Cube

GG 30 stain-free annealed
Combined with 772-SVF 5050 page 37



Cube

GG 30 recuit
en combinaison avec 772-SVF 5050 page 37



Würfel

GG 30 spannungsfrei geglüht
Kombiniert mit 772-SVF 5050 Seite 37

SVF 50

Other dimensions and tolerances on request

D'autres dimensions, trames, tolérances sur demande

Andere Abmessungen, Raster und Toleranzen auf Anfrage

Also fits vb Lock® system

Egalement pour système vb Lock®

Auch auf vb Lock® Nullpunktspannsystem passend

Ref.	H	A	B	C	D	E = Stichmass 200 x 200 ± 0,01 mm	kg		
SVF-50	560	400	200	60	320	Cube only / uniquement le cube / nur Würfel			
SVF-50-4	560	400	200	60	320	with 16 clamping stations / avec 16 positions de serrage / mit 16 Spannstellen			

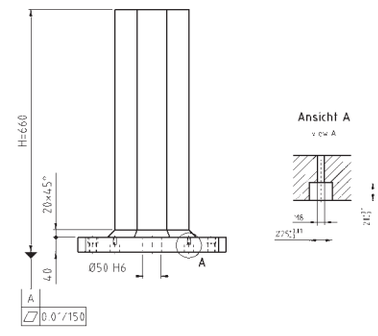
Order example:3 p. SVF-50

Exemple de commande: 3 p. SVF-50

Bestellbeispiel: 3 Stk. SVF-50

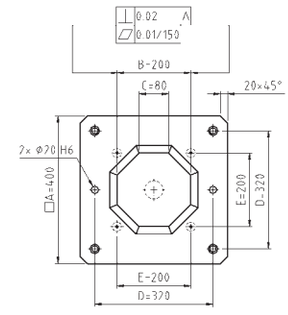
Cube

GG 30 stain-free annealed
Combined with 772-SVF 7260 page 37



Cube

GG 30 recuit
en combinaison avec 772-SVF 7260 page 37



Würfel

GG 30 spannungsfrei geglüht
Kombiniert mit 772-SVF 7260 Seite 37

SVF 72

Other dimensions and tolerances on request

D'autres dimensions, trames, tolérances sur demande

Andere Abmessungen, Raster und Toleranzen auf Anfrage

Also fits vb Lock® system

Egalement pour système vb Lock®

Auch auf vb Lock® Nullpunktspannsystem passend

Ref.	H	A	B	C	D	E = Stichmass 200 x 200 ± 0,01 mm	kg		
SVF-72	660	400	200	80	320	Cube only / uniquement le cube / nur Würfel			
SVF-72-4	660	400	200	80	320	with 16 clamping stations / avec 16 positions de serrage / mit 16 Spannstellen			

Order example:3 p. SVF-72

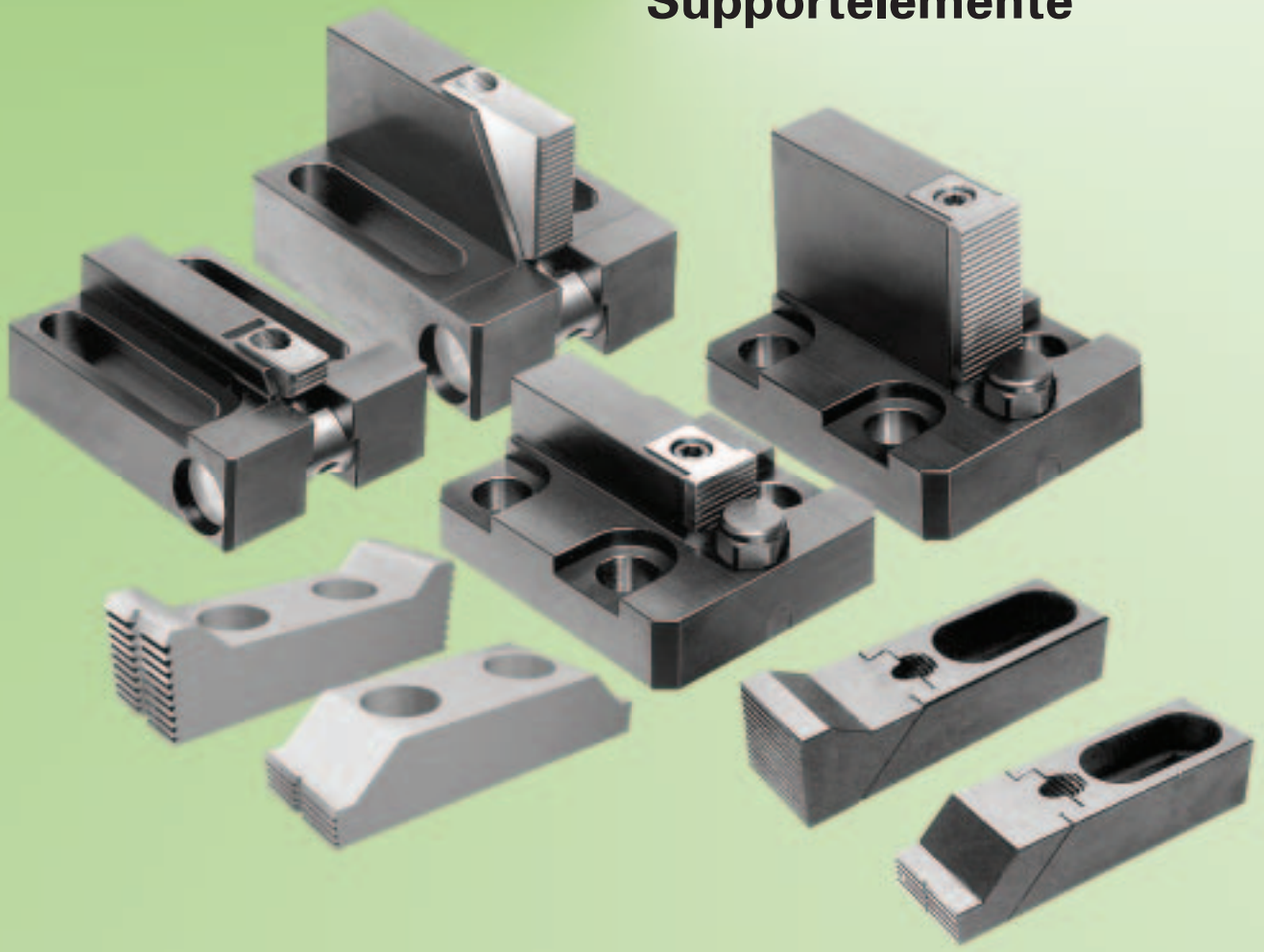
Exemple de commande: 3 p. SVF-72

Bestellbeispiel: 3 Stk. SVF-72

Pull-down clamps
Supports

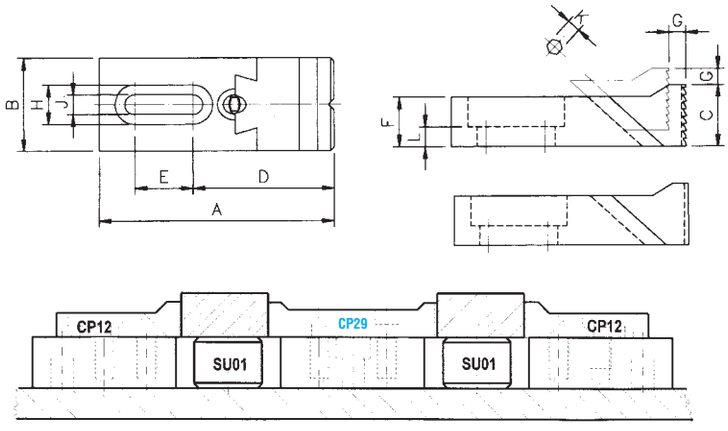
Crampon-plaqueurs
Supports

Tiefziehspanner
Supportelemente



Pull-down jaw — Crampon-plaqueur — Tiefspannbacke

CP12



For CP29, see page 42
CP29 voir page 42
CP29 finden Sie auf Seite 42

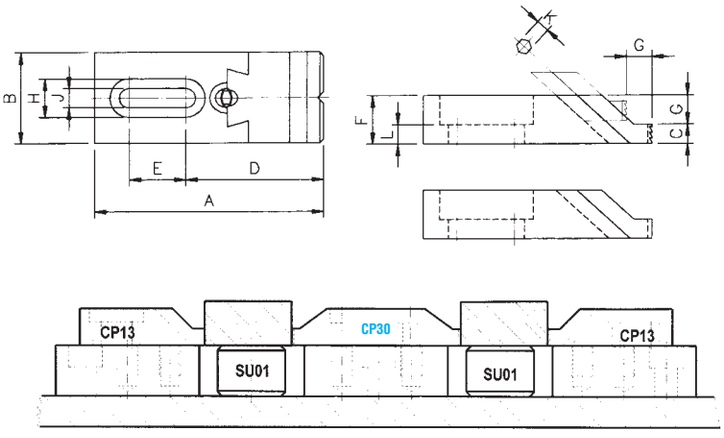
For tightening torque see page 74 — Moments de couple voir page 74 — Anzugsmomente siehe Seite 74

Ref.	A	B	C	D	E	F	G	H	J	K	L	Typ Type	kg		
774 CP12 0108	72	25	20	45	16	16	7	14	8,5	4	7	ridged strié gerippt	0,16		
774 CP12 0212	105	35	30	65	26	22	12	20	13,5	6	9		0,45		
774 CP12 0316	138	40	40	90	30	30	14	26	17,0	8	13		0,95		
774 CP12 0408	72	25	20	45	16	16	7	14	8,5	4	7	smooth lisse glatt	0,16		
774 CP12 0512	105	35	30	65	26	22	12	20	13,5	6	9e		0,45		
774 CP12 0616	138	40	40	90	30	30	14	26	17,0	8	13		0,95		

Order example: 3 p. 774 CP12 0108 — Exemple de commande: 3 p. 774 CP12 0108 — Bestellbeispiel: 3 Stk. 774 CP12 0108

Pull-down jaw — Crampon-plaqueur — Tiefspannbacke

CP13



For CP30, see page 42
CP30 voir page 42
CP30 finden Sie auf Seite 42

For tightening torque see page 74 — Moments de couple voir page 74 — Anzugsmomente siehe Seite 74

Ref.	A	B	C	D	E	F	G	H	J	K	L	Typ Type	kg		
774 CP13 0108	72	25	8	45	16	16	7	14	8,5	4	7	ridged strié gerippt	0,15		
774 CP13 0212	105	35	10	65	26	22	12	20	13,5	6	9		0,40		
774 CP13 0316	138	40	14	90	30	30	14	26	17,0	8	13		0,85		
774 CP13 0408	72	25	8	45	16	16	7	14	8,5	4	7	smooth lisse glatt	0,15		
774 CP13 0512	105	35	10	65	26	22	12	20	13,5	6	9		0,40		
774 CP13 0616	138	40	14	90	30	30	14	26	17,0	8	13		0,85		

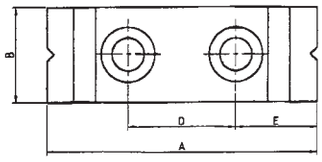
Order example: 3 p. 774 CP13 0108 — Exemple de commande: 3 p. 774 CP13 0108 — Bestellbeispiel: 3 Stk. 774 CP13 0108

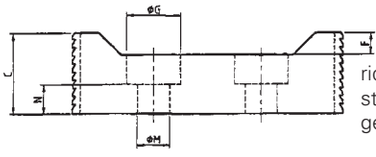
Stationary stop, high

Butée fixe, haute

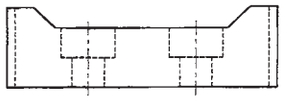
Anschläge fest, hoch

CP29





ridged
strié
gerippt



smooth
lisse
glatt

for CP12, see page 41
pour CP12 voir page 41
für CP12 siehe Seite 41

Ref.	A (±0,01)	B	C	D (±0,01)	E	F	G	M (H7)	N	Typ Type			
774 CP29 4012S	100	35	30	40	30	8	20	12	11	ridged strié gerippt			
774 CP29 5016S	130	40	40	50	40	10	26	16	14				
774 CP29 4012G	100	35	30	40	30	8	20	12	11	smooth lisse glatt			
774 CP29 5016G	130	40	40	50	40	10	26	16	14				

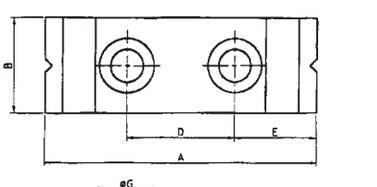
Order example: 3 p. 774 CP29 4012S Exemple de commande: 3 p. 774 CP29 4012S Bestellbeispiel: 3 Stk. 774 CP29 4012S

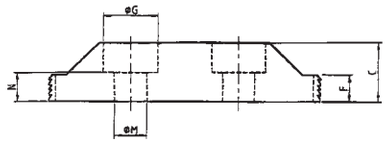
Stationary stop, low

Butée fixe, basse

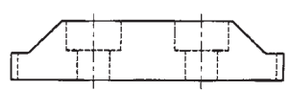
Anschläge fest, niedrig

CP30





ridged
strié
gerippt



smooth
lisse
glatt

for CP13, see page 41
pour CP13 voir page 41
für CP13 siehe Seite 41

Ref.	A (±0,01)	B	C	D (±0,01)	E	F	G	M (H7)	N	Typ Type			
774 CP30 4012S	100	35	22	40	30	10	20	12	11	ridged strié gerippt			
774 CP30 5016S	130	40	30	50	40	14	26	16	14				
774 CP30 4012G	100	35	22	40	30	10	20	12	11	smooth lisse glatt			
774 CP30 5016G	130	40	30	50	40	14	26	16	14				

Order example: 3 p. 774 CP30 4012S Exemple de commande: 3 p. 774 CP30 4012S Bestellbeispiel: 3 Stk. 774 CP30 4012S

Pull-down clamp, adustable

Case-hardened jaws
Clamping screw heat treated

784 041
low-profile, grid spacing 40 mm
784 051
low-profile,grid spacing 50 mm
For tightening torque, see page 74

Crampon-plaqueur coté mobile

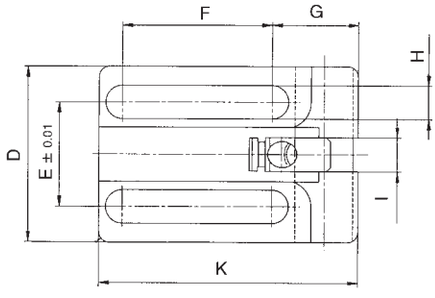
mors trempé
vis de serrage améliorée

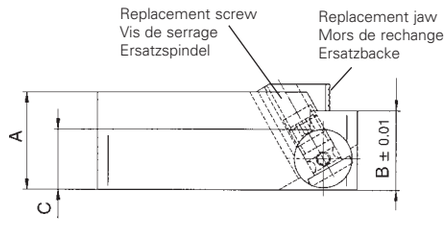
784 041
exécution basse, trame 40 mm
784 051
exécution basse, trame 50 mm
Moments de couple voir page 74

Tiefziehspanner zum Anstellen

Spannbacken gehärtet
Spannschraube vergütet

784 041
niedrige Ausführung, Raster 40 mm
784 051
niedrige Ausführung, Raster 50 mm
Anzugsmomente siehe Seite 74





784 041
784 051

Ref.	A	B ± 0,01	C	D	E ± 0,01	F	G	H	I	K	L		kg		
784 041	37+1	30	23	67	40	58	33	12,7	13	100	21		1,135		
784 051	37+1	30	23	77	50	58	33	16,5	13	104	21		1,267		
784 041-02	Replacement jaw low / Mors de rechange bas / Ersatzbacke nieder														
784 041-03	Replacement screw short / Vis de serrage courte / Ersatzspindel kurz														

Order example: 3 p. 784 041 Exemple de commande: 3 p. 784 041 Bestellbeispiel: 3 Stk. 784 041

Pull-down clamp, adjustable

Case-hardened jaws
Clamping screw heat treated

784 241
high-profile, grid spacing 40 mm
784 251
high-profile, grid spacing 50 mm
For tightening torque, see page 74

Crampon-plaqueur coté mobile

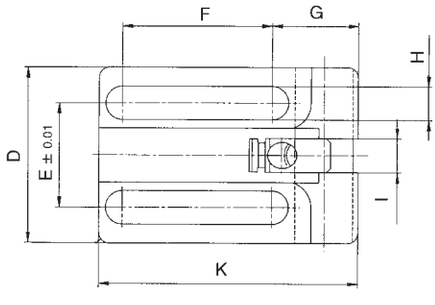
mors trempé
vis de serrage améliorée

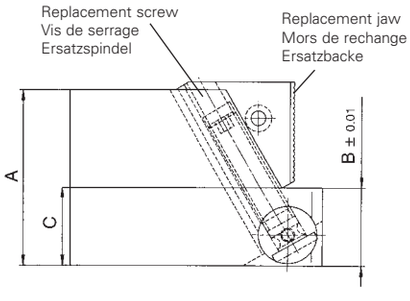
784 241
exécution haute, trame 40 mm
784 251
exécution haute, trame 50 mm
Moments de couple voir page 74

Tiefziehspanner zum Anstellen

Spannbacken gehärtet
Spannschraube vergütet

784 241
hohe Ausführung, Raster 40 mm
784 251
hohe Ausführung, Raster 50 mm
Anzugsmomente siehe Seite 74





784 241
784 251

Ref.	A	B ± 0,01	C	D	E ± 0,01	F	G	H	I	K	L		kg		
784 241	67+1	30	30	67	40	58	33	12,7	15	100	21		1,607		
784 251	67+1	30	30	77	50	58	33	16,5	15	104	21		1,806		
784 241-02	Replacement jaw high / Mors de rechange haut / Ersatzbacke hoch														
784 241-04	Replacement screw long / Vis de serrage longue / Ersatzspindel lang														

Order example: 3 p. 784 241 Exemple de commande: 3 p. 784 241 Bestellbeispiel: 3 Stk. 784 241

Pull-down clamp stationary

Case-hardened stop plate
784 042
low-profile, grid spacing 40 mm
784 052
low-profile, grid spacing 50 mm
Adjuster shoulder screw M12 x 30/20
M16 x 30/20
Washer 12,5/4
16,5/4
784 043
Adjuster screw M12–12g6
784 053
Adjuster screw M16–16g6
(To separate order)

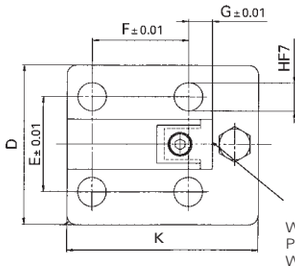
Crampon-plaqueur coté fixe

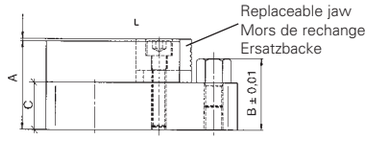
butée trempée
784 042
exécution basse, trame 40 mm
784 052
exécution basse, trame 50 mm
Vis de précision à épaulement M12 x 30/20
M16 x 30/20
Cale 12,5/4
16,5/4
784 043
Boulon calibré M12–12g6
784 053
Boulon calibré M16–16g6
(à commander à part)

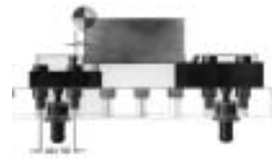
Tiefziehspanner zum Abstecken

Anschlagplatte gehärtet
784 042
niedere Ausführung, Raster 40 mm
784 052
niedere Ausführung, Raster 50 mm
Schulterpassschraube M12 x 30/20
M16 x 30/20
U-Scheibe 12,5/4
16,5/4
784 043
Passschrauben M12–12g6
784 053
Passschrauben M16–16g6
(separat bestellen)

784 042
784 052







Screw 784 043/784 053 page 46 Vis 784 043/784 053 page 46 Schraube 784 043/784 053 Seite 46

Ref.	A	B ± 0,01	C	D	E ± 0,01	F ± 0,01	G ± 0,01	H F7		K			kg		
784 042	37+1	30	20	67	40	40	10	12		80			0,937		
784 052	37+1	30	20	77	50	50	10	16		95			1,230		
784 042-02	Replacement jaw low /Mors de rechange bas / Ersatzbacke nieder														

Order example: 3 p. 784 042 Exemple de commande: 3 p. 784 042 Bestellbeispiel: 3 Stk. 784 042

Pull-down clamp, stationary

Case-hardened stop plate
784 242
high-profile, grid spacing 40 mm
784 252
high-profile, grid spacing 50 mm
Adjuster shoulder screw M12 x 30/20
M16 x 30/20
Washer 12,5/4
16,5/4
784 043
Adjuster screw M12–12g6
784 053
Adjuster screw M16–16g6
(To separate order)

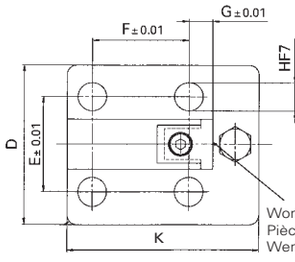
Crampon-plaqueur coté fixe

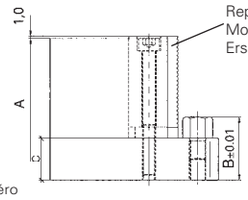
butée trempée
784 242
exécution haute, trame 40 mm
784 252
exécution haute, trame 50 mm
Vis de précision à épaulement M12 x 30/20
M16 x 30/20
Cale 12,5/4
16,5/4
784 043
Boulon calibré M12–12g6
784 053
Boulon calibré M16–16g6
(à commander à part)

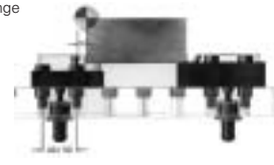
Tiefziehspanner zum Abstecken

Anschlagplatte gehärtet
784 242
hohe Ausführung, Raster 40 mm
784 252
hohe Ausführung, Raster 50 mm
Schulterpassschraube M12 x 30/20
M16 x 30/20
U-Scheibe 12,5/4
16,5/4
784 043
Passschrauben M12–12g6
784 053
Passschrauben M16–16g6
(separat bestellen)

784 242
784 252







Screw 784 043/784 053 page 46 Vis 784 043/784 053 page 46 Schraube 784 043/784 053 Seite 46

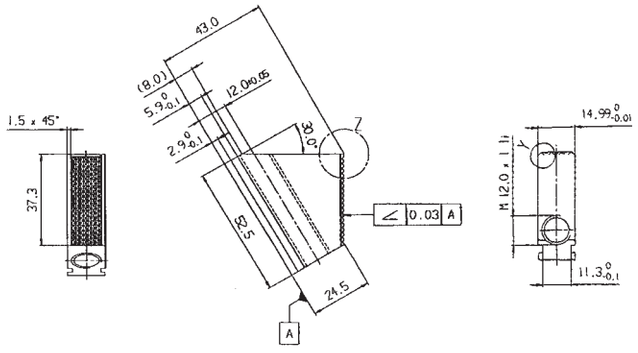
Ref.	A	B ± 0,01	C	D	E ± 0,01	F ± 0,01	G ± 0,01	H F7		K			kg		
784 242	67+1	30	20	67	40	40	10	12		80			1,227		
784 252	67+1	30	20	77	50	50	10	16		95			1,590		
784 242-02	Replacement jaw low / Mors de rechange haut / Ersatzbacke hoch														

Order example: 3 p. 784 242 Exemple de commande: 3 p. 784 242 Bestellbeispiel: 3 Stk. 784 242

Serrated jaw, high

Mâchoire striée, haute

Spitzbacke, hoch



784 241-06

for 784 241/784 251
pour 784 241/784 251
für 784 241/784 251

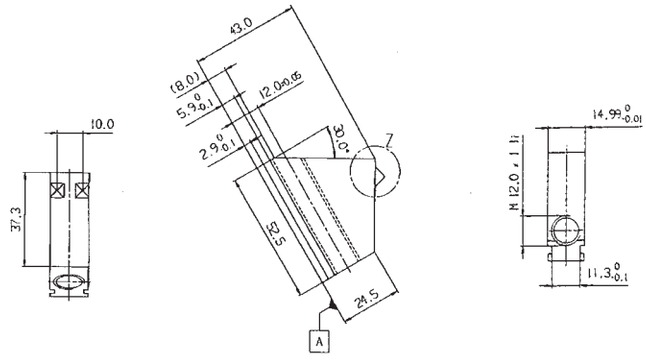
Ref.			
784 241-06	Serrated jaw, high / Mâchoire striée haute /Spitzbacke hoch		

Order example: 3 p. 784 241-06 Exemple de commande: 3 p. 784 241-06 Bestellbeispiel: 3 Stk. 784 241-06

Cast-iron jaw, high

Mâchoire en fonte haute

Gussbacke hoch



784 241-07

for 784 241/784 251
pour 784 241/784 251
für 784 241/784 251

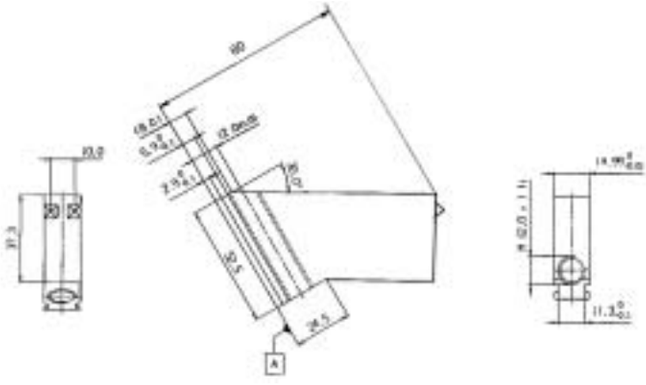
Ref.			
784 241-07	Cast-iron jaw, high / Mâchoire en fonte haute /Gussbacke hoch		

Order example: 3 p. 784 241-07 Exemple de commande: 3 p. 784 241-07 Bestellbeispiel: 3 Stk. 784 241-07

Cast-iron jaw, high, extended

Mâchoire en fonte haute, allongée

Gussbacke hoch, verlängert



784 241-07X

for 784 241/784 251
pour 784 241/784 251
für 784 241/784 251

Ref.			
784 241-07X	Cast-iron jaw, high / Mâchoire en fonte haute allongée / Gussbacke hoch verlängert		

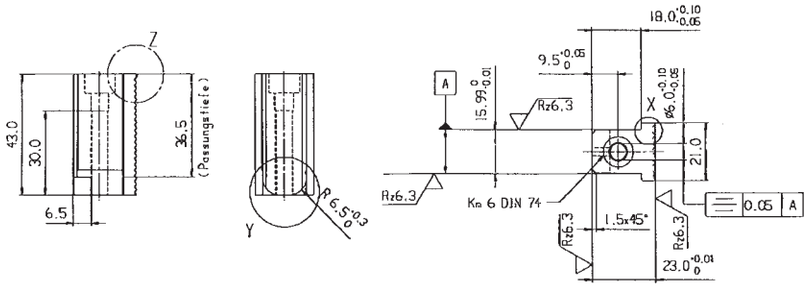
Order example: 3 p. 784 241-07X Exemple de commande: 3 p. 784 241-07X Bestellbeispiel: 3 Stk. 784 241-07X

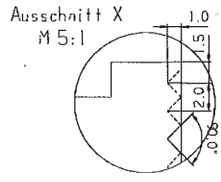
Serrated jaw, high

Mâchoire striée, haute

Spitzbacke, hoch

784 242-06





for 784 242/784 252
pour 784 242/784 252
für 784 242/784 252

Ref.			
784 242-06	Serrated jaw, high / Mâchoire striée, haute / Spitzbacke, hoch		

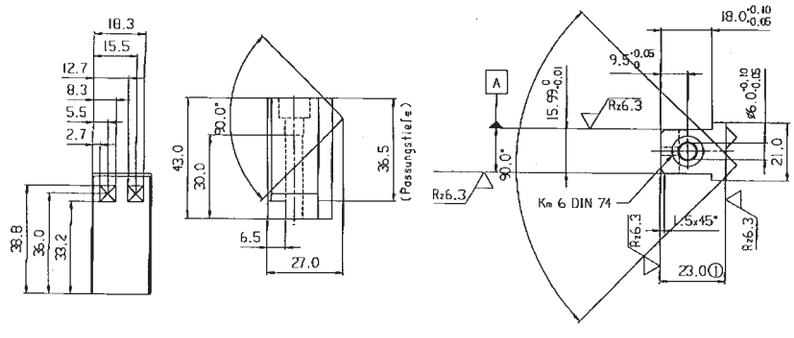
Order example: 3 p. 784 242-06 Exemple de commande: 3 p. 784 242-06 Bestellbeispiel: 3 Stk. 784 242-06

Cast-iron jaw, high

Mâchoire en fonte, haute

Gussbacke, hoch

784 242-07



for 784 242/784 252
pour 784 242/784 252
für 784 242/784 252

Ref.			
784 242-07	Cast-iron jaw, high / Mâchoire en fonte haute / Gussbacke hoch		

Order example: 3 p. 784 242-07 Exemple de commande: 3 p. 784 242-07 Bestellbeispiel: 3 Stk. 784 242-07

Fitting screws for

MAFU 0-point clamping elements

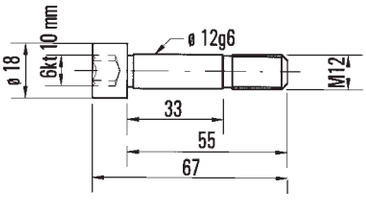
Vis de précision pour

éléments MAFU 0-Punkt

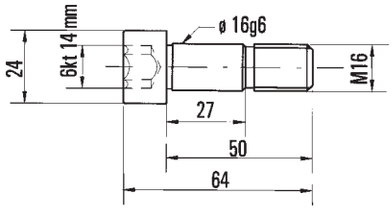
Passschraube für

MAFU 0-Punkt Spannelemente

784 043



784 053



784 043
784 053

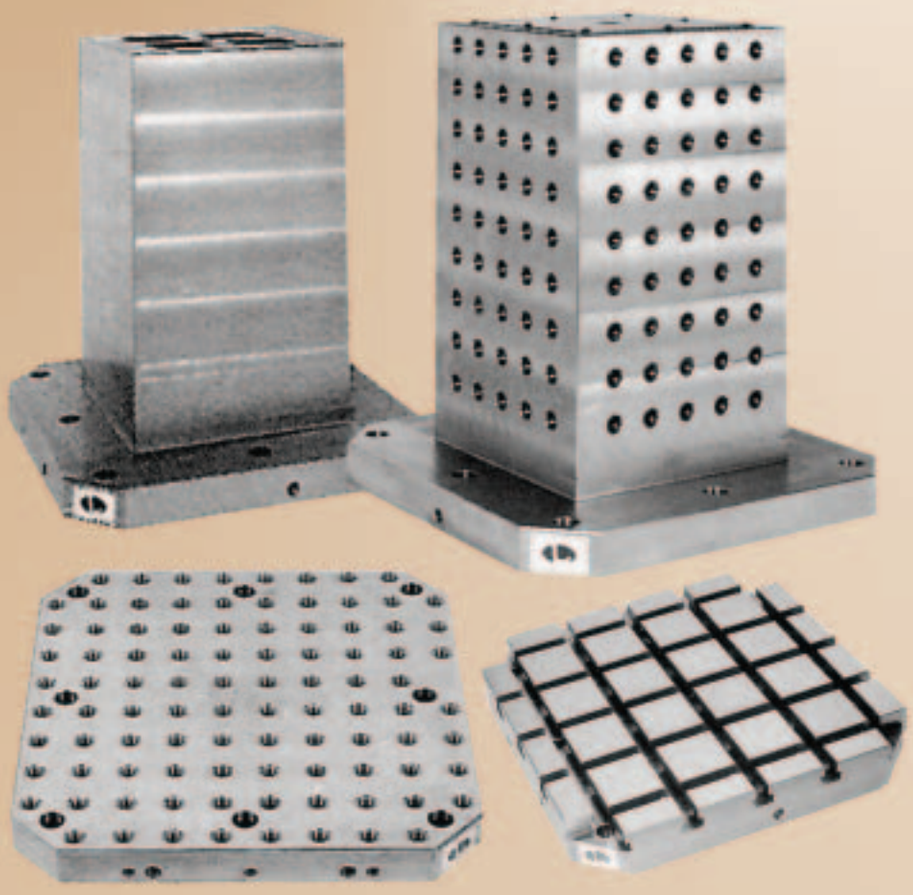
Ref.			
784 043			
784 053			

Order example: 3 p. 784 043 Exemple de commande: 3 p. 784 043 Bestellbeispiel: 3 Stk. 784 043

Base-plates, Cubes
Angle-plates

Palettes, cubes
Equerres de serrage

Rasterplatten, Würfel
Spannwinkel



Base plates

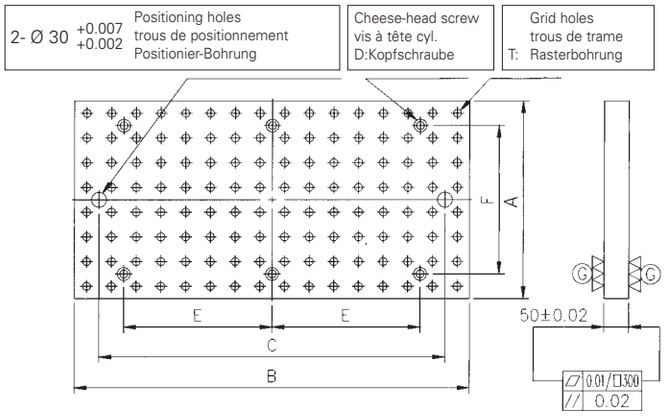
GG 30 normalized
heat treated bushings 100 r6 DIN
Grid spacing: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

Surtables tramées

GG 30 recuit
douilles trempées DIN 100 r6
Trame: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

Rasterplatten

GG 30 spannungsfrei geglüht
gehärtete Büchsen DIN 100 r6
Lochraster: ± 0,01 mm: 40 mm, M12 / 50 mm, M16



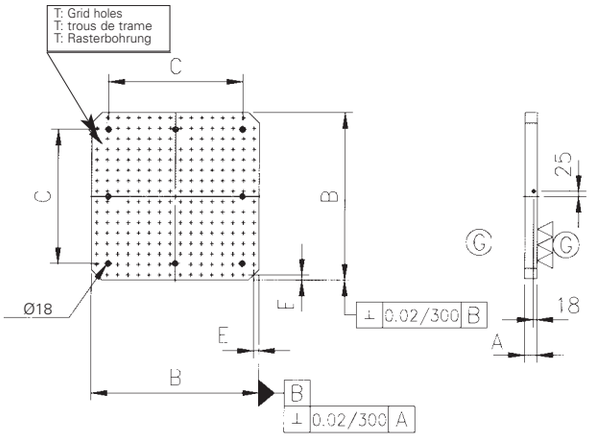
BP 02

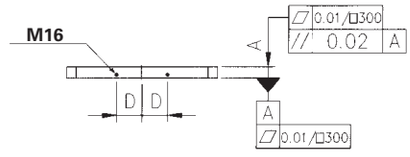
Other dimensions and tolerances on request
D'autres dimensions, trames, tolérances sur demande
Andere Abmessungen, Raster und Toleranzen auf Anfrage

Steel and aluminium grid palets on request
Surtables tramées acier et aluminium sur demande
Stahl- und Alu-Lochrasterplatten auf Anfrage

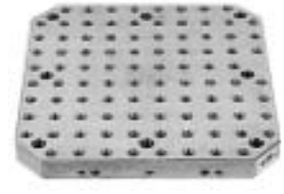
Ref.	A	B	C	D	E	F	T (F7)	Spacing Trame Raster	No. of holes Nbre trous Anz. Bohrungen	kg		
BP 02 0112 N	400	600	customized à spécifier kundenspezifisch	Ø 18	customized à spécifier kundenspezifisch	customized à spécifier kundenspezifisch	Ø 12/M12	40	126	90		
BP 02 0212 N	500	600		Ø 18			Ø 12/M12	40	154	112		
BP 02 0312 N	600	600		Ø 18			Ø 12/M12	40	196	134		
BP 02 0412 N	400	800		Ø 18			Ø 12/M12	40	171	119		
BP 02 0512 N	450	900		Ø 18			Ø 12/M12	40	210	151		
BP 02 0612 N	500	1000		Ø 18			Ø 12/M12	40	264	187		
BP 02 0716	400	600		Ø 18			Ø 16/M16	50	96	87		
BP 02 0816	500	600		Ø 18			Ø 16/M16	50	120	108		
BP 02 0916	600	600		Ø 18			Ø 16/M16	50	144	129		
BP 02 1016	400	800		Ø 18			Ø 16/M16	50	128	115		
BP 02 1116	450	900		Ø 18			Ø 16/M16	50	162	146		
BP 02 1216	500	1000		Ø 18			Ø 16/M16	50	200	180		

Order example: 3p. BP 02 0112 N
Exemple de commande: 3 p. BP 02 0112 N
Bestellbeispiel: 3 Stk. BP 02 0112 N





BP 05



Other dimensions and tolerances on request
D'autres dimensions, trames, tolérances sur demande
Andere Abmessungen, Raster und Toleranzen auf Anfrage

Steel and aluminium grid palets on request
Surtables tramées acier et aluminium sur demande
Stahl- und Alu-Lochrasterplatten auf Anfrage

Ref.	A	B	C	D	E	T (F7)	Spacing Trame Raster	No. of holes Nbre trous Anz. Bohrungen	Fixing holes Trous de fixation Befest.-Löcher	kg		
BP 05 0112 N	50	400	320	55	25	Ø 12/M12	40	81	4	54		
BP 05 0212 N	50	500	400	75	25	Ø 12/M12	40	121	8	83		
BP 05 0312 N	50	630	500	100	40	Ø 12/M12	40	196	8	134		
BP 05 0412 N	50	800	640	135	25	Ø 12/M12	40	361	8	255		
BP 05 0516	50	400	320	55	25	Ø 16/M16	50	59	4	52		
BP 05 0616	50	500	400	75	25	Ø 16/M16	50	93	8	80		
BP 05 0716	50	630	500	100	40	Ø 16/M16	50	139	8	130		
BP 05 0816	50	800	640	135	25	Ø 16/M16	50	237	8	247		

Order example: 3 p. BP 05 0112 N
Exemple de commande: 3 p. BP 05 0112 N
Bestellbeispiel: 3 Stk. BP 05 0112 N

T-slot plates

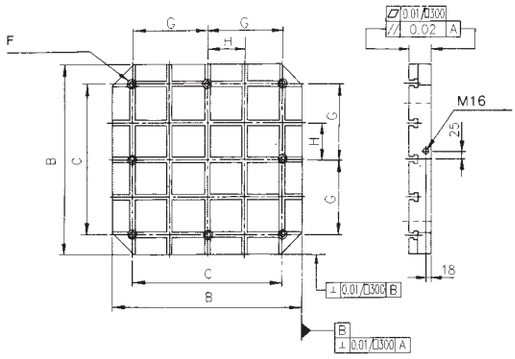
Palette avec rainures à T

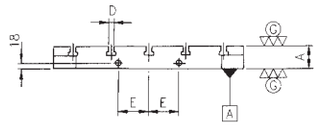
T-Nuten-Platte

GG 30 normalized

GG 30 recuit

GG 30 spannungsfrei geglüht





BP 06

Ref.	A (± 0.02)	B	C	D (H7)	E	F	G (± 0,02)	H (± 0,02)		kg		
BP 06 0114	60	400	320	14	55	Ø 18	160	80		66		
BP 06 0214	60	500	400	14	75	Ø 18	200	100		90		
BP 06 0314	60	630	500	14	100	Ø 18	250	125		149		
BP 06 0414	60	800	640	14	135	Ø 18	320	160		230		
BP 06 0518	75	400	320	18	55	Ø 18	160	80		85		
BP 06 0618	75	500	400	18	75	Ø 18	200	100		118		
BP 06 0718	75	630	500	18	100	Ø 18	250	125		195		
BP 06 0818	75	800	640	18	135	Ø 18	320	160		298		

Order example: 3 p. BP 06 0114

Exemple de commande: 3 p. BP 06 0114

Bestellbeispiel: 3 Stk. BP 06 0114

Base plates for BP13

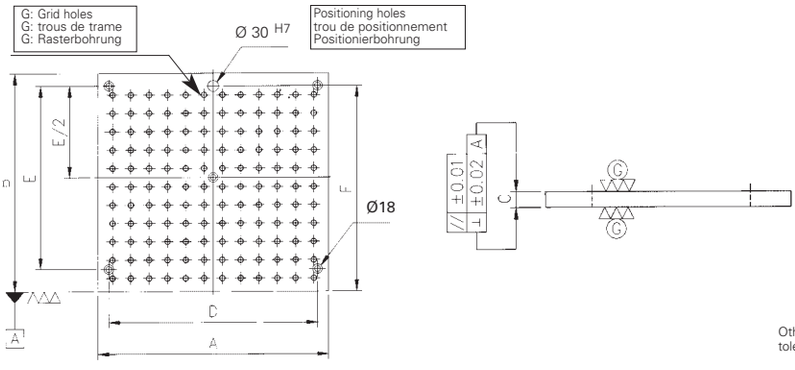
GG 30 normalized
heat treated bushings 100 r6 DIN
Grid spacing: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

Surtables tramées pour BP13

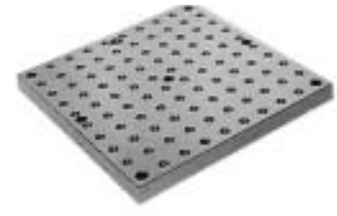
GG 30 recuit
douilles trempées DIN 100 r6
Trame: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

Rasterplatten für BP13

GG 30 spannungsfrei geglüht
gehärtete Büchsen DIN 100 r6
Lochraster: ± 0,01 mm: 40 mm, M12 / 50 mm, M16



BP15



Other dimensions and tolerances on request

D'autres dimensions, trames, tolérances sur demande

Andere Abmessungen, Raster und Toleranzen auf Anfrage

Ref.	A	B	C (±0.02)	D	E	F			G (F7)	Spacing Trame Raster	No. of holes Nbre trous Anz. Bohrung.	Fixing holes Trous de fixation Befest.-Löcher	kg		
BP15 0112 N	400	400	40	350	350	370			Ø 12/M12	40	81	5	42		
BP15 0212 N	500	500	40	450	450	470			Ø 12/M12	40	121	5	75		
BP15 0312 N	630	630	40	580	580	600			Ø 12/M12	40	196	7	120		
BP15 0412 N	800	800	50	750	750	770			Ø 12/M12	40	361	7	240		
BP15 0516	400	400	40	350	350	370			Ø 16/M16	50	64	5	40		
BP15 0616	500	500	40	450	450	470			Ø 16/M16	50	100	5	73		
BP15 0716	630	630	40	580	580	600			Ø 16/M16	50	144	7	118		
BP15 0816	800	800	50	750	750	770			Ø 16/M16	50	256	7	235		

Order example: 3 p. BP 15 0112 N

Exemple de commande: 3 p. BP 15 0112 N

Bestellbeispiel: 3 Stk. BP 15 0112 N

Clamping cube

GG 30 normalized
including cover and transport screw

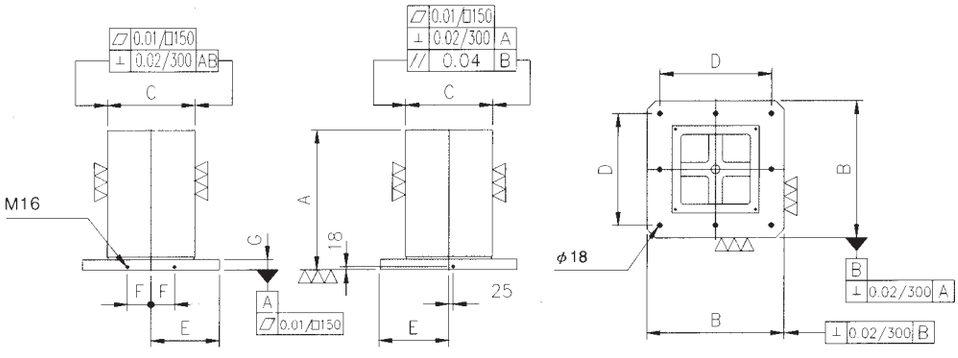
Cube de serrage

GG 30 recuit
y compris couvercle avec filetage et vis de transport

Spannwürfel

GG 30 spannungsfrei geglüht
inkl. Deckel und Transportschraube

BP07



Other dimensions and tolerances on request

D'autres dimensions, trames, tolérances sur demande

Andere Abmessungen, Raster und Toleranzen auf Anfrage

Ref.	A	B	C	D	E	F	G	Fixing holes Trous de fixation Befest.-Löcher	kg		
BP 07 0100	500	400	250	320	200	55	50	4	175		
BP 07 0200	600	500	300	400	250	75	50	8	240		
BP 07 0300	700	630	350	500	315	100	50	8	390		
BP 07 0400	800	800	500	640	400	135	50	8	745		

Order example: 3 p. BP 07 0100 — Exemple de commande: 3 p. BP 07 0100 — Bestellbeispiel: 3 Stk. BP 07 0100

Locator-grid cube

GG 30 normalized
including cover and transport screw
heat treated bushings 100 r6 DIN
Grid spacing: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

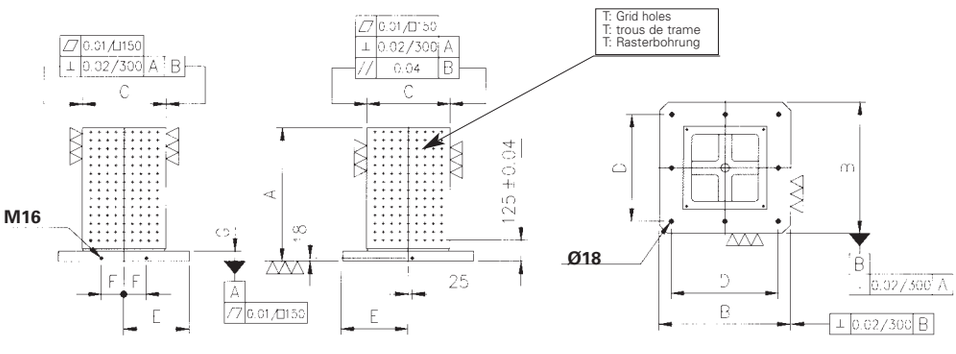
Cube tramé

GG 30 recuit
y compris couvercle avec filetage et vis de transport
douilles trempées DIN 100 r6
Trame: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

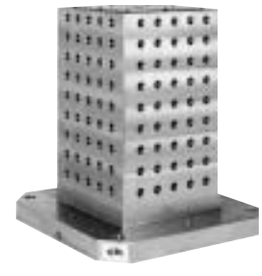
Rasterwürfel

GG 30 spannungsfrei geglüht
inkl. Deckel und Transportschraube
gehärtete Büchsen DIN 100 r6
Lochraster: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

BP08



Other dimensions and tolerances on request



D'autres dimensions, trames, tolérances sur demande

Andere Abmessungen, Raster und Toleranzen auf Anfrage

Ref.	A	B	C	D	E	F	G	T (F7)	Spacing Trame Raster	No. of holes Nbre trous Anz. Bohrung.	Fixing holes Trous de fixation Befest.-Löcher	kg		
BP 08 0112 N	500	400	250	320	200	55	50	Ø 12/M12	40	180	4	145		
BP 08 0212 N	600	500	300	400	250	75	50	Ø 12/M12	40	264	8	230		
BP 08 0312 N	700	630	350	500	315	100	50	Ø 12/M12	40	392	8	380		
BP 08 0412 N	800	800	500	640	400	135	50	Ø 12/M12	40	704	8	720		
BP 08 0516	500	400	250	320	200	55	50	Ø 16/M16	50	112	4	143		
BP 08 0616	600	500	300	400	250	75	50	Ø 16/M16	50	180	8	228		
BP 08 0716	700	630	350	500	315	100	50	Ø 16/M16	50	288	8	376		
BP 08 0816	800	800	500	640	400	135	50	Ø 16/M16	50	504	8	710		

Order example: 3 p. BP 08 0112 N — Exemple de commande: 3 p. BP 08 0112 N — Bestellbeispiel: 3 Stk. BP 08 0112 N

Double-sided angle plate

GG 30 normalized
including cover and transport screw

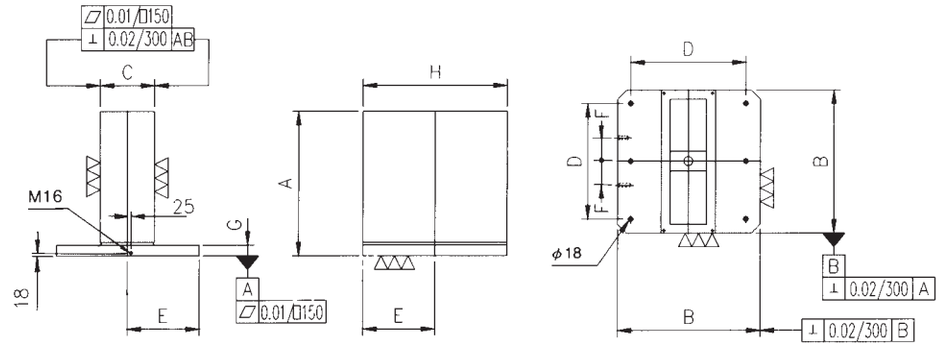
Equerre double

GG 30 recuit
y compris couvercle avec filetage et vis de transport

Doppelwinkel

GG 30 spannungsfrei geglüht
inkl. Deckel und Transportschraube

BP10



Other dimensions and tolerances on request

D'autres dimensions, trames, tolérances sur demande

Andere Abmessungen, Raster und Toleranzen auf Anfrage

Ref.	A	B	C	D	E	F	G	H	Fixing holes Trous de fixation Befestigungs-Löcher	kg		
BP 10 0100	500	400	150	320	200	55	50	400	4	170		
BP 10 0200	600	500	200	400	250	75	50	500	6	265		
BP 10 0300	700	630	250	500	315	100	50	630	6	484		
BP 10 0400	800	800	300	640	400	135	50	800	6	598		

Order example: 3 p. BP 10 0100 Exemple de commande: 3 p. BP 10 0100 Bestellbeispiel: 3 Stk. BP 10 0100

Double-sided angle plate

GG 30 normalized
including cover and transport screw
heat treated bushings 100 r6 DIN
Grid spacing: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

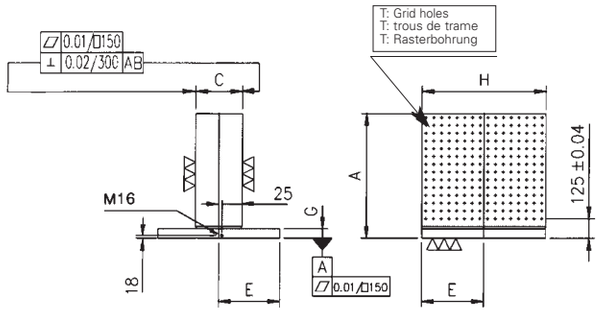
Equerre double

GG 30 recuit
y compris couvercle avec filetage et vis de transport
douilles trempées DIN 100 r6
Trame: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

Doppelwinkel

GG 30 spannungsfrei geglüht
inkl. Deckel und Transportschraube
gehärtete Büchsen DIN 100 r6
Lochraster: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

BP11



Other dimensions and tolerances on request

D'autres dimensions, trames, tolérances sur demande

Andere Abmessungen, Raster und Toleranzen auf Anfrage

Ref.	A	B	C	D	E	F	G	H	T (F7)	Spacing Trame Raster	No. of holes Nbre trous Anz. Bohrung.	Fixing holes Trous de fixation Befest.-Löcher	kg		
BP 11 0112 N	500	400	150	320	200	55	50	400	Ø 12/M12	40	162	4	165		
BP 11 0212 N	600	500	200	400	250	75	50	500	Ø 12/M12	40	242	6	250		
BP 11 0312 N	700	630	250	500	315	100	50	630	Ø 12/M12	40	392	6	475		
BP 11 0412 N	800	800	300	640	400	135	50	800	Ø 12/M12	40	512	6	700		
BP 11 0516	500	400	150	320	200	55	50	400	Ø 16/M16	50	98	4	164		
BP 11 0616	600	500	200	400	250	75	50	500	Ø 16/M16	50	162	6	248		
BP 11 0716	700	630	250	500	315	100	50	630	Ø 16/M16	50	264	6	470		
BP 11 0816	800	800	300	640	400	135	50	800	Ø 16/M16	50	420	6	695		

Order example: 3 p. BP 11 0112 N Exemple de commande: 3 p. BP 11 0112 N Bestellbeispiel: 3 Stk. BP 11 0112 N

Tombstone base for locator-grid palets BP15

GG 30 normalized
including cover and transport screw
Locator-grid plate BP15 page 49

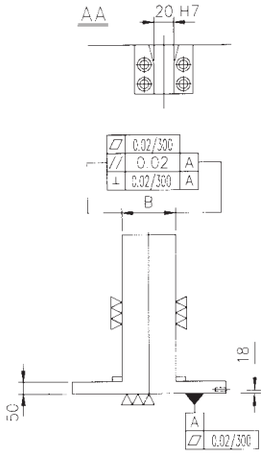
Equerre double de base pour surtable tramée BP15

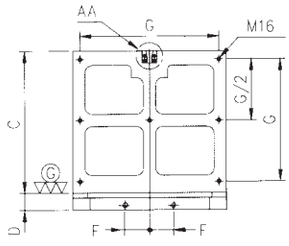
GG 30 recuit
y compris couvercle avec filetage et vis de transport
Surtables tramées BP15 page 49

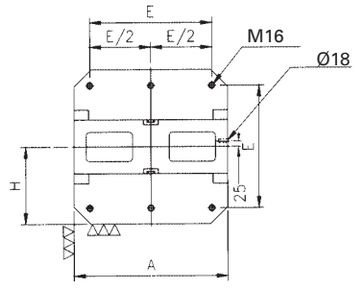
Basis-Doppelwinkel für Rasterplatten BP15

GG 30 spannungsfrei geglüht
inkl. Deckel und Transportschraube
Rasterplatten BP15 Seite 49

BP13







Other dimensions and tolerances on request

D'autres dimensions, trames, tolérances sur demande

Andere Abmessungen, Raster und Toleranzen auf Anfrage

Ref.	A	B	C	D	E	F	G	H			Fixing holes Trous de fixation Befest.-Löcher	kg		
BP13 0100	400	100	400	55	320	55	350	200			5	98		
BP13 0200	500	150	500	55	400	75	450	250			5	215		
BP13 0300	630	200	630	70	500	100	580	315			7	270		
BP13 0400	800	250	800	70	640	135	750	400			7	590		

Order example: 3 p. BP 13 0100 Exemple de commande: 3 p. BP 13 0100 Bestellbeispiel: 3 Stk. BP 13 0100

Angle plate

GG 30 normalized

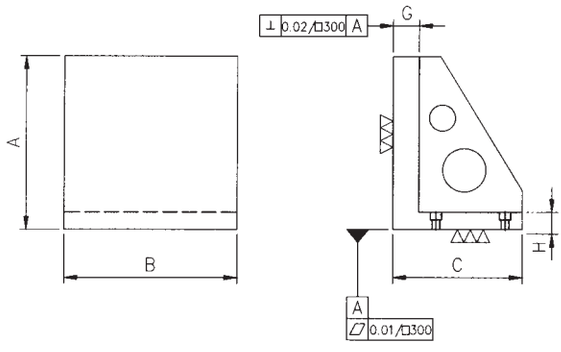
Equerre

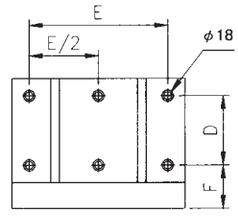
GG 30 recuit

Winkel

GG 30 spannungsfrei geglüht

BP20





Other dimensions and tolerances on request

D'autres dimensions, trames, tolérances sur demande

Andere Abmessungen, Raster und Toleranzen auf Anfrage

Ref.	A	B	C	D	E	F	G	H		kg		
BP 20 0100	300	300	220	100	250	90	40	30		52		
BP 20 0200	400	400	280	160	320	90	40	30		90		
BP 20 0300	500	500	350	200	400	90	50	35		175		
BP 20 0400	630	630	450	250	500	100	50	40		305		
BP 20 0500	800	800	550	320	640	115	50	45		480		

Order example: 3 p. BP 20 0100 Exemple de commande: 3 p. BP 20 0100 Bestellbeispiel: 3 Stk. BP 20 0100

Angle plate with locator grid

GG 30 normalized
Grid spacing: ± 0,01 mm: 40 mm, M12 / 50 mm,M16

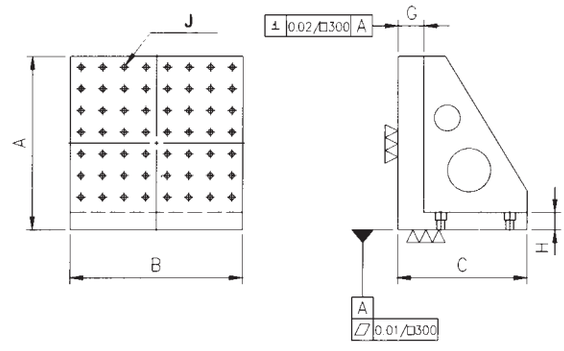
Equerre avec trame

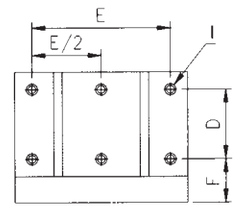
GG 30 recuit
Trame: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

Winkel mit Lochraster

GG 30 spannungsfrei geglüht
Lochraster: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

BP21





Other dimensions and tolerances on request

D'autres dimensions, trames, tolérances sur demande

Andere Abmessungen, Raster und Toleranzen auf Anfrage

Ref.	A	B	C	D	E	F	G	H	I	J			Spacing Trame	No. of holes Nbre trous	Fixing holes Trous de fixation	kg		
										F7	TAP		Raster	Anz. Bohrungen	Bef.-Löcher			
BP 21 0112 N	300	300	220	100	250	90	40	30	Ø 18	Ø 12	M12		40	30	4	50		
BP 21 0212 N	400	400	280	160	320	90	40	30	Ø 18	Ø 12	M12		40	56	4	87		
BP 21 0312 N	500	500	350	200	400	90	50	35	Ø 18	Ø 12	M12		40	90	4	173		
BP 21 0412 N	630	630	450	250	500	100	50	40	Ø 18	Ø 12	M12		40	132	6	300		
BP 21 0512 N	800	800	550	320	640	115	50	45	Ø 18	Ø 12	M12		40	240	6	477		
BP 21 0616	300	300	220	100	250	90	40	30	Ø 18	Ø 16	M16		50	30	4	46		
BP 21 0716	400	400	280	160	320	90	40	30	Ø 18	Ø 16	M16		50	56	4	85		
BP 21 0816	500	500	350	200	400	90	50	35	Ø 18	Ø 16	M16		50	90	4	170		
BP 21 0916	630	630	450	250	500	100	50	40	Ø 18	Ø 16	M16		50	132	6	295		
BP 21 1016	800	800	550	320	640	115	50	45	Ø 18	Ø 16	M16		50	240	6	470		

Order example: 3 p. BP 21 0112 N Exemple de commande: 3 p. BP 21 0112 N Bestellbeispiel: 3 Stk. BP 21 0112 N

Angle plate with locator grid

GG 30 normalized
Grid spacing: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

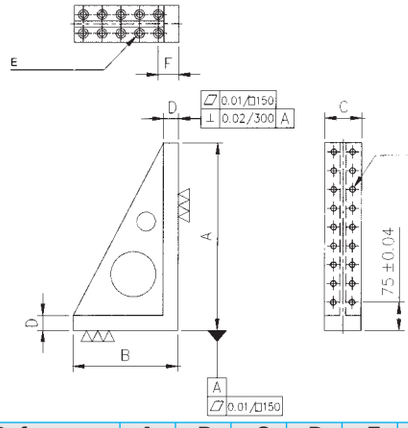
Equerre avec trame

GG 30 recuit
Trame: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

Winkel mit Lochraster

GG 30 spannungsfrei geglüht
Lochraster: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

BP24



G: Grid holes
G: trous de trame
G: Rasterbohrungen

Other dimensions and tolerances on request

D'autres dimensions, trames, tolérances sur demande

Andere Abmessungen, Raster und Toleranzen auf Anfrage

Ref.	A	B	C	D	E (F7)	F	G (F7)	Spacing Trame Raster			No. of holes Nbre trous Anz. Bohrungen	Fixing holes Trous de fixation Bef.-Löcher	kg		
BP 24 0112 N	300	180	100	40	Ø12	55	Ø12/M12	40			10	6	12		
BP 24 0212 N	400	230	100	40	Ø12	55	Ø12/M12	40			14	8	18		
BP 24 0312 N	500	280	100	40	Ø12	55	Ø12/M12	40			18	10	22		
BP 24 0416	300	180	100	40	Ø16	55	Ø16/M16	50			10	6	13		
BP 24 0516	400	230	100	40	Ø16	55	Ø16/M16	50			14	8	15		
BP 24 0616	500	280	100	40	Ø16	55	Ø16/M16	50			18	10	24		

Order example: 3 p. BP 24 0112 N

Exemple de commande: 3 p. BP 24 0112 N

Bestellbeispiel: 3 Stk. BP 24 0112 N

Bracket

GG 30 normalized
Grid spacing: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

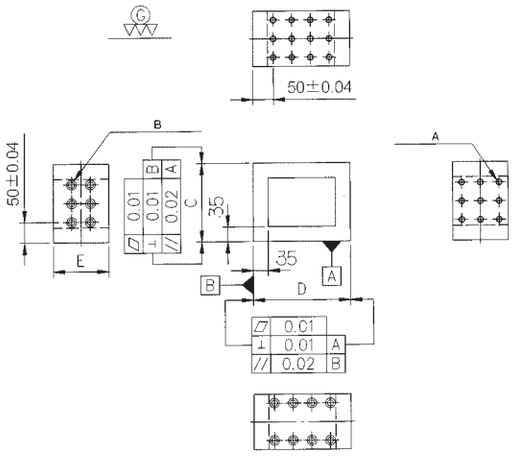
Console

GG 30 recuit
Trame: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

Konsole

GG 30 spannungsfrei geglüht
Lochraster: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

BP26



Other dimensions and tolerances on request

D'autres dimensions, trames, tolérances sur demande

Andere Abmessungen, Raster und Toleranzen auf Anfrage

Ref.	A (F7)	B (F7)	C (± 0,02)	D (± 0,02)	E	Spacing Trame Raster			No. of holes Nbre trous Anz. Bohrungen	Fixing holes Trous de fixation Bef.-Löcher	kg		
BP 26 0112N	Ø12/M12	Ø12	150	200	150	40			15	10	21,5		
BP 26 0212N	Ø12/M12	Ø12	200	250	150	40			21	14	36,5		
BP 26 0316	Ø16/M16	Ø16	150	200	150	50			15	10	21,3		
BP 26 0416	Ø16/M16	Ø16	200	250	150	50			21	14	36,2		

Order example: 3 p. BP 26 0112 N

Exemple de commande: 3 p. BP 26 0112 N

Bestellbeispiel: 3 Stk. BP 26 0112 N

Bracket

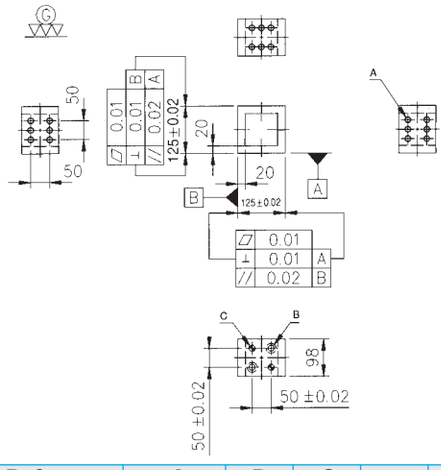
GG 30 normalized
Grid spacing: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

Console

GG 30 recuit
Trame: ± 0,01 mm: 40 mm, M12 / 50 mm, M16

Konsole

GG 30 spannungsfrei geglüht
Lochraster: ± 0,01 mm: 40 mm, M12 / 50 mm, M16



BP28

Other dimensions and tolerances on request

D'autres dimensions, trames, tolérances sur demande

Andere Abmessungen, Raster und Toleranzen auf Anfrage

Ref.	A	B	C (F7)	Spacing Trame Raster		kg		
BP 28 0112N	M12	Ø14	Ø12	40		5,8		
BP 28 0216	M16	Ø18	Ø16	50		5,5		

Order example: 3 p. BP 28 0112N

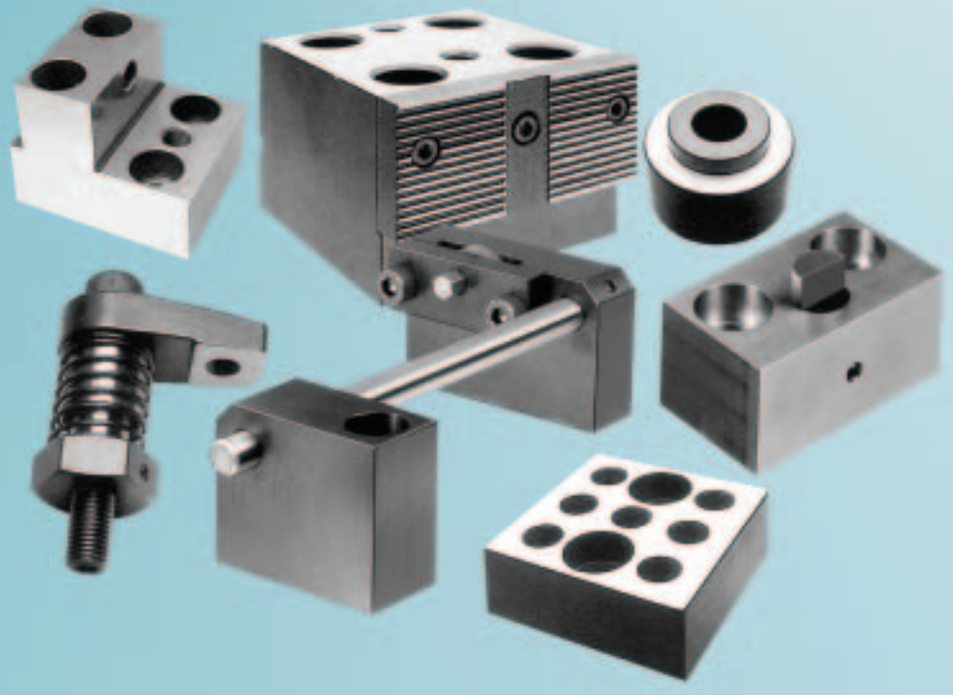
Exemple de commande: 3 p. BP 28 0112N

Bestellbeispiel: 3 Stk. BP 28 0112N

Accessories

Accessoires

Zubehör



Selection of Clamping elements

Assortiment d'éléments de serrage

Sortiment Spannelemente

Selection consisting of:

Assortiment se composant de:

Sortiment bestehend aus:

	Hexagon nut with skirt Ecrou hexagonal avec collerette Sechskantmutter mit Bund	6 p. 6 pc. 6 Stk.		For individual parts see page 71 Pièces individuelles voir page 71 Einzelteile siehe Seite 71
	Extension nut Ecrou allongé Verlängerungsmutter	4 p. 4 pc. 4 Stk.		For individual parts see page 71 Pièces individuelles voir page 71 Einzelteile siehe Seite 71
	Universal step blocks (Three types) Cales réglables crénelées (Trois sortes) Universal-Spannunterlage (Drei Sorten)	4 p. par 4 pc. je 4 Stk.		For individual parts see page 61 Pièces individuelles voir page 61 Einzelteile siehe Seite 61
	Step clamping strap. Bride de serrage crénelée (Trois sortes) Spannpratze mit Treppenzähnen (Drei Sorten)	2 p. par 2 pc. je 2 Stk.		For individual parts see page 62 Pièces individuelles voir page 62 Einzelteile siehe Seite 62
	Stud. Six types Goujon. Six sortes Stiftschraube. Sechs Sorten	4 p. par 4 pc. je 4 Stk.	75, 100, 125, 150, 175, 200 mm	For individual parts see page 72 Pièces individuelles voir page 72 Einzelteile siehe Seite 72
	T-nut Coulisseau à T T-Nutenstein	6 p. 6 pc. 6 Stk.		For individual parts see page 72 Pièces individuelles voir page 72 Einzelteile siehe Seite 72

MK

Ref.	for T-slot / pour gorge en T für T-Nute	Thread /Filetage Gewinde	kg
775 MK-1210	12	M10	8
775 MK-1412	14	M12	9,5
775 MK-1614	16	M14	10,5
775 MK-1816	18	M16	19
775 MK-2018	20	M18	21

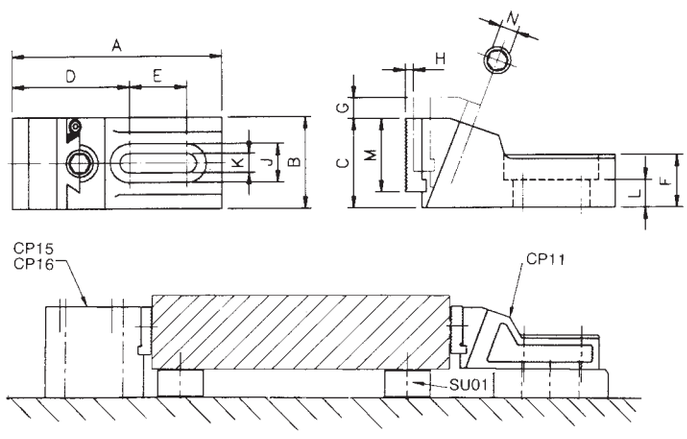
Order example: 3 p. 775 MK-1210 Exemple de commande: 3 p. 775 MK-1210 Bestellbeispiel: 3 Stk. 775 MK-1210

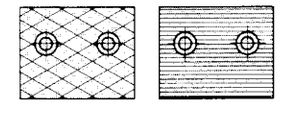
Pull-down jaw

Crampon-plaqueur

Tiefspannbacke

CP11





smooth
lisse
glatt

ridged
strié
gerippt

For tightening torque see page 74 Moments de couple voir page 74 Anzugsmomente siehe Seite 74

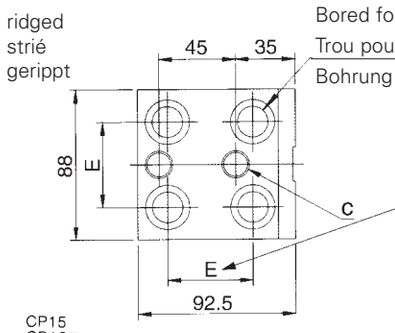
Ref.	A	B	C	D	E	F	G	H	J	K	L	M	N	Typ Type	kg
774 CP11 0112	133	60	58	68	50	32	16	6	22	14	18	42	10	ridged strié gerippt	2,0
774 CP11 0216	187	85	80	92	70	45	24	9	30	18	25	60	14		5,5
774 CP11 0312	133	60	58	68	50	32	16	6	22	14	18	42	10	smooth lisse glatt	2,0
774 CP11 0416	187	85	80	92	70	45	24	9	30	18	25	60	14		5,5

Order example: 3 p. 774 CP11 0112 Exemple de commande: 3 p. 774 CP11 0112 Bestellbeispiel: 3 Stk. 774 CP11 0112

Stop bloc | Bloc de butée | Anstell-Block

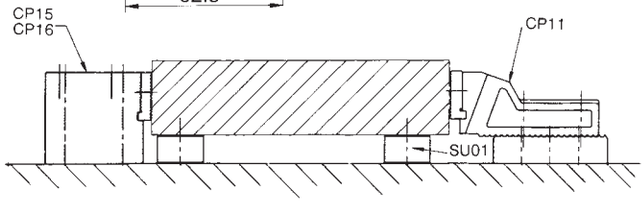
CP15

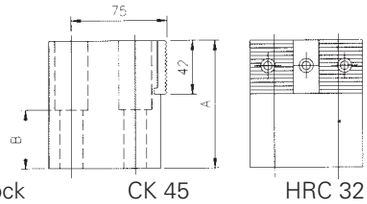
ridged
strié
gerippt



Bored for cheese-head bolt
Trou pour vis à tête cylindrique
Bohrung für Zylinderkopfschraube

Hole spacing: 40 mm, M12 / 50 mm, M16
Quadrillage: 40 mm, M12/50 mm, M16
Rasterabstand: 40 mm, M12/50 mm, M16





Bloc / Bloc / Block	CK 45	HRC 32
Jaw / Mors / Backe	C105W1	HRC 58

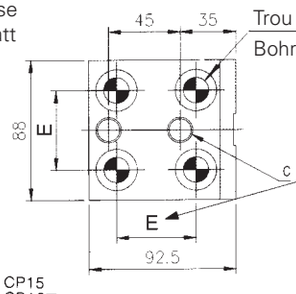
Ref.	A	B	C	D	E							Typ Type	kg		
774 CP15 0112 N	65	43	M12	14	40							ridged strié gerippt	4,0		
774 CP15 0212 N	80	43	M12	14	40								4,5		
774 CP15 0316	65	38	M16	18	50								3,9		
774 CP15 0416	80	38	M16	18	50								4,4		

Order example: 3 p. 774 CP15 0112N | Exemple de commande: 3 p. 774 CP15 0112N | Bestellbeispiel: 3 Stk. 774 CP15 0112N

Set-up block | Bloc de butée | Anstell-Block

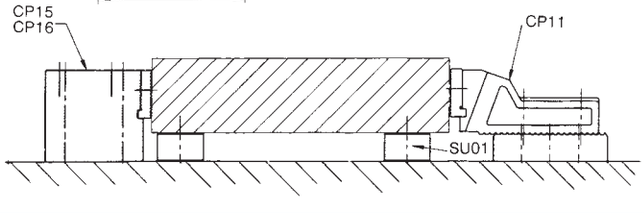
CP16

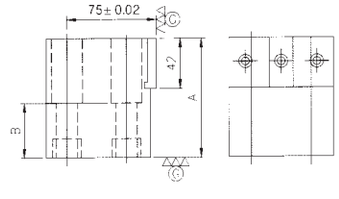
smooth
lisse
glatt



Bored for cheese-head bolt
Trou pour vis à tête cylindrique
Bohrung für Zylinderkopfschraube

Hole spacing: 40 mm, M12 / 50 mm, M16
Quadrillage: 40 mm, M12/50 mm, M16
Rasterabstand: 40 mm, M12/50 mm, M16





Bloc / Bloc / Block	CK 45	HRC 32
Jaw / Mors / Backe	C105W1	HRC 58

Ref.	A	B	C	D	E ± 0,02							Typ Type	kg		
774 CP16 0112 N	65	43	M12	12	40							smooth lisse glatte	4,0		
774 CP16 0212N	80	43	M12	12	40								4,5		
774 CP16 0316	65	38	M16	16	50								3,9		
774 CP16 0416	80	38	M16	16	50								4,4		

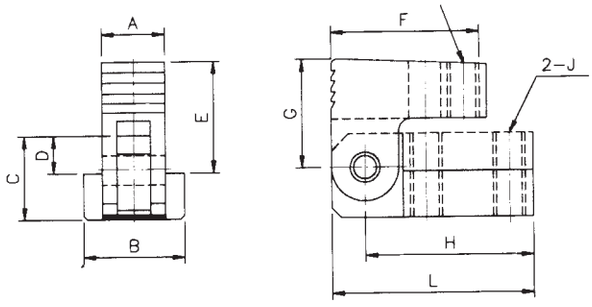
Order example: 3 p. 774 CP16 0112N | Exemple de commande: 3 p. 774 CP16 0112N | Bestellbeispiel: 3 Stk. 774 CP16 0112N

Mini-clamp for T-slots

Mini-Clamp pour rainures à T

Mini-Clamp für T-Nuten

CP22



CK 45 HRC 35

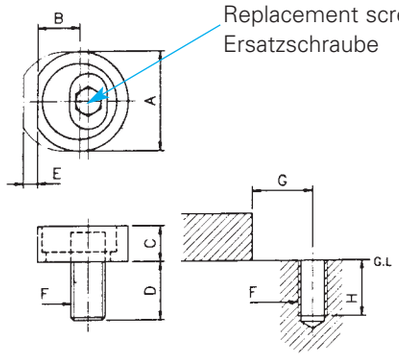
Ref.	A	B	C	D	E	F	G	H	I	L	J		kg		
774 CP22 1218	11,8	17,5	12,7	7,2	23,2	41	22	48	M6	54	M6		0,08		
774 CP22 1422	13,8	22,2	15,8	7,1	24,3	41	24	46	M6	54	M6		0,19		
774 CP22 1625	15,8	25,4	15,8	7,1	26,8	50	27	55	M8	65	M8		0,25		
774 CP22 1828	17,5	28,4	19,0	7,9	28,9	50	29	55	M8	65	M8		0,36		
774 CP22 2032	19,7	31,7	25,4	11,4	34,0	50	34	55	M10	65	M10		0,48		

Order example: 3 p. 774 CP22 1218 Exemple de commande: 3 p. 774 CP22 1218 Bestellbeispiel: 3 Stk. 774 CP22 1218

Eccentric clamp

Elément de serrage excentrique

Exzenter-Spanner



Replacement screw / Vis de rechange
Ersatzschraube

CP24

CK 45 HRC 40

Replacement screw / Vis de rechange Ersatzschraube		
774 CP24-0108 M8		
774 CP24-0210 M10		
774 CP24-0312 M12		
774 CP24-0416 M16		

Ref.	A	B	C	D	E	F	G	H					kg		
774 CP24 0108	24	11,0	6	14	3	M8	11,5	17					0,022		
774 CP24 0210	26	11,8	8	19	4	M10	12,5	22					0,036		
774 CP24 0312	30	13,5	9	19	5	M12	14,5	22					0,054		
774 CP24 0416	38	16,0	12	23	6	M16	17,5	26					0,120		

Order example: 3 p. 774 CP24 0108 Exemple de commande: 3 p. 774 CP24 0108 Bestellbeispiel: 3 Stk. 774 CP24 0108

Stop, pirotable 360° with zero point, straight

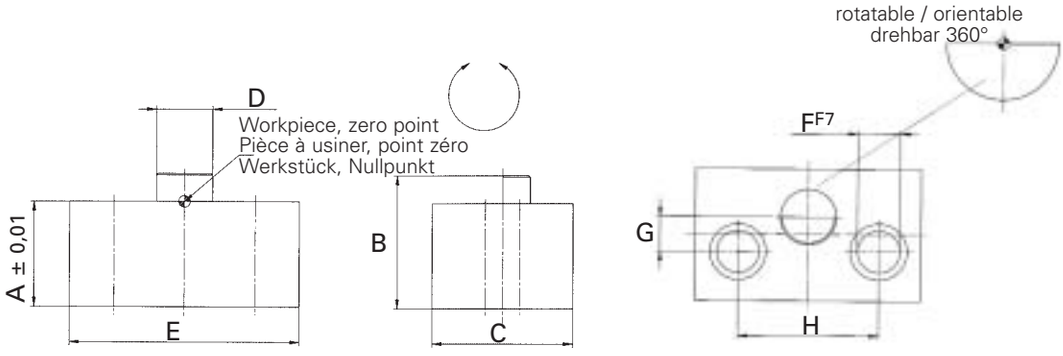
785 241 Grid spacing 40 mm
785 251 Grid spacing 50 mm

Butée orientable 360° avec point zéro, droite

785 241 trame 40 mm
785 251 trame 50 mm

Anschlag, drehbar 360° mit Nullpunkt, gerade

785 241 Raster 40 mm
785 251 Raster 50 mm



785 241
785 251

Ref.	A ± 0,01	B	C	D	E	F F7	G ± 0,01	H ± 0,01								
785 241	30	38	40	16	65	12	10	40								
785 251	30	38	40	16	75	16	10	50								

Order example: 3 p. 785 241 Exemple de commande: 3 p. 785 241 Bestellbeispiel: 3 Stk. 785 241

Support

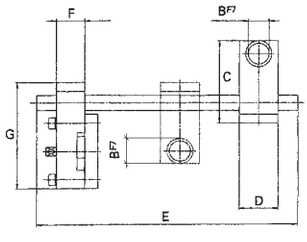
785 742 low-profile
785 752 low-profile
785 745 high-profile
785 755 high-profile

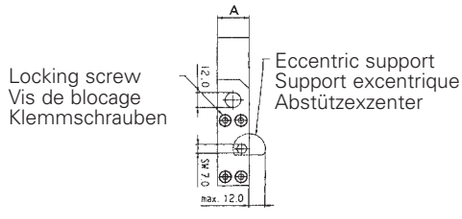
Support

785 742 exécution basse
785 752 exécution basse
785 745 exécution haute
785 755 exécution haute

Abstütz-Element

785 742 niedere Ausführung
785 752 niedere Ausführung
785 745 hohe Ausführung
785 755 hohe Ausführung





785 742
785 752
785 745
785 755

Ref.	A	B F7	C	D	E	F	G						kg		
785 742	24	12	64	30	200	22	84						0,897		
785 752	24	16	64	30	200	22	84						0,878		
785 745	54	12	64	30	200	22	84	While stocks last /Solange Vorrat/en fonction des stocks					1,758		
785 755	54	16	64	30	200	22	84	While stocks last /Solange Vorrat/en fonction des stocks					1,739		

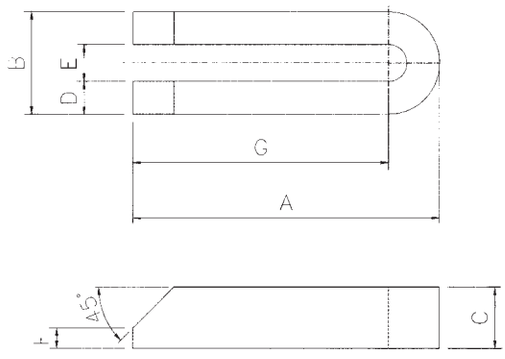
Order example: 3 p. 785 742 Exemple de commande: 3 p. 785 742 Bestellbeispiel: 3 Stk. 785 742

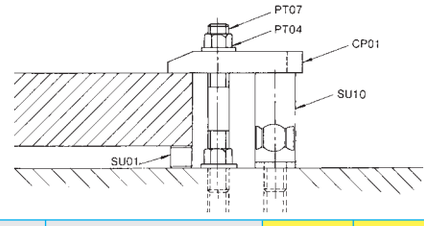
Forked clamping in CK45

Bride à fourche en CK45

Gabelspannpratze aus CK45

CP01





Ref.	A	B	C	D	E	F	G	kg		
774 CP01 0112	100	38	22	12	13	6	81	1,2		
774 CP01 0212	125	38	25	12	13	6	106	1,5		
774 CP01 0316	150	50	30	16	17	8	125	2,4		
774 CP01 0420	200	60	35	19	21	10	170	4,5		

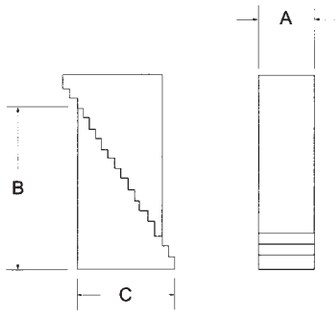
Order example: 3 p. 774 CP01 0112 Exemple de commande: 3 p. 774 CP01 0112 Bestellbeispiel: 3 Stk. 774 CP01 0112

Universal-step blocks in CK45 for CP25

Cales réglables crénelées en CK45 pour CP25

Universal-Spannunterlage aus CK45 für CP25

SU25



Ref.	Support height Hauteur d'appui Abstütz-Höhe	A	B	C	max. kg	kg		
775 SU25 2530	19–49	25	30	17	13,210	0,11		
775 SU25 2545	28–68		45	27	21,000	0,26		
775 SU25 2597	58–150		97	57	46,200	1,02		
775 SU25 3259	38–90	32	59	35	41,650	0,71		
775 SU25 3297	58–150		97	57	69,400	1,53		
775 SU25 32139	82–210		139	81	99,000	2,77		
775 SU25 3859	36–90	38	59	35	55,500	0,92		
775 SU25 3897	58–150		97	57	92,600	2,00		
775 SU25 38139	82–210		139	81	132,500	3,73		

Order example: 3 p. 775 SU25 2530 Exemple de commande: 3 p. 775 SU25 2530 Bestellbeispiel: 3 Stk. 775 SU25 2530

Step clamp in CK45

for use with SU25 universal step blocks

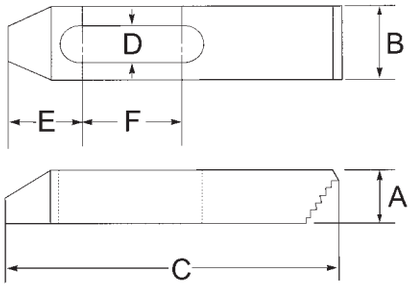
Bride de serrage crénelée en CK45

pour l'utilisation avec les cales étagées SU25

Spannpratze mit Treppenzähnen aus CK45

zur Verwendung mit den gezahnten Unterlagen SU25

CP25



For SU25 page 61 / Pour SU25 page 61 / Für SU25 Seite 61

Ref.	A	B	C	D	E	F		kg		
774 CP25 1063	13	25	63		18	19		0,12		
774 CP25 10100	16	25	100	11	27	37	M10	0,23		
774 CP25 10150	19	32	150		30	50		0,47		
774 CP25 1263	13	25	63		20	14		0,12		
774 CP25 12100	19	32	100	13	29	34	M12	0,38		
774 CP25 12150	22	32	150		32	50		0,68		
774 CP25 1463	13	25	63		20	14		0,12		
774 CP25 14100	19	32	100	15	29	34	M14	0,38		
774 CP25 14150	22	32	150		32	50		0,68		
774 CP25 1663	16	32	63		22	12		0,17		
774 CP25 16100	19	38	100	17	31	26	M16	0,42		
774 CP25 16150	22	38	150		40	47		0,72		
774 CP25 1863	16	32	63		22	12		0,17		
774 CP25 18100	19	38	100	20	31	26	M18	0,42		
774 CP25 18150	22	38	150		40	47		0,72		
774 CP25 20100	19	38	100		33	27		0,38		
774 CP25 20150	25	38	150	21	43	44	M20	0,76		
774 CP25 20200	25	50	200		55	65		1,52		
774 CP25 24150	30		150		43	38		1,29		
774 CP25 24200	32	50	200	26	53	57	M24	2,00		
774 CP25 24250	38		250		60	64		2,95	**7**	

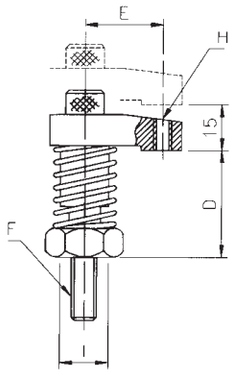
Order example: 3 p. 774 CP25 1063 Exemple de commande: 3 p. 774 CP25 1063 Bestellbeispiel: 3 Stk. 774 CP25 1063

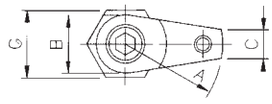
Swing clamp

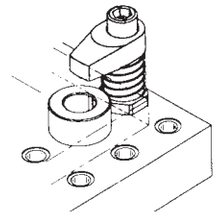
Bride pivotante

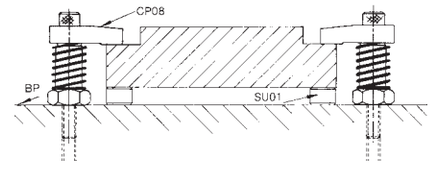
Schwenk-Bride

CP08









Ref.	A	B	C	D	E	F	G	H	I				kg		
775 CP08 0112	30	28	16	40	—	M12	29	—	21				0,49		
775 CP08 0212	50	32	20	45	40	M12	36	M12	26				0,61		
775 CP08 0316	50	32	20	45	40	M16	36	M12	26				0,61		
775 CP08 0416	60	40	25	45	45	M16	41	M16	32				0,70		

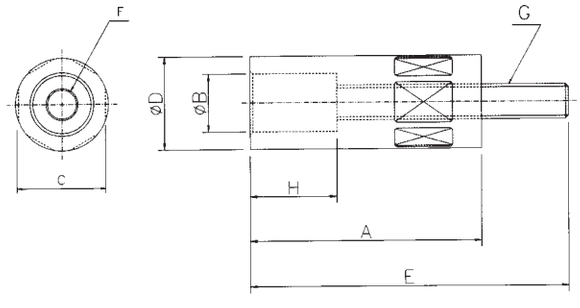
Order example: 3 p. 775 CP08 0112 Exemple de commande: 3 p. 775 CP08 0112 Bestellbeispiel: 3 Stk. 775 CP08 0112

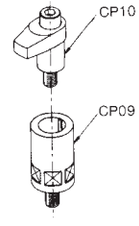
Extension piece for CP10

Rehausse pour CP10

Verlängerung für CP10

CP09





Ref.	A	B (F7)	C	D	E	F	G	H					kg		
775 CP09 0112	80	25	36	40	110	M12	M12	40					1,10		
775 CP09 0212	100	25	36	40	130	M12	M12	40					1,30		
775 CP09 0316	80	32	46	50	110	M16	M16	40					1,70		
775 CP09 0416	100	32	46	50	130	M16	M16	40					2,00		

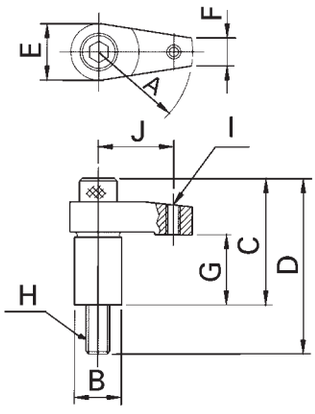
Order example: 3 p. 775 CP09 0112 Exemple de commande: 3 p. 775 CP09 0112 Bestellbeispiel: 3 Stk. 775 CP09 0112

Swing clamp

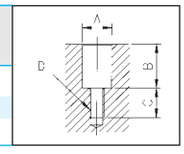
Bride pivotante

Schwenk-Bride

CP10



Ref.	A (F7)	B	C	D
775 CP10 0110	22	30	20	M10
775 CP10 0212	25	40	25	M12
775 CP10 0316	32	40	25	M16



Ref.	A	B (h7)	C	D	E	F	G	H	I	J			kg		
775 CP10 0110	30	22	54	75	28	16	30	M10	—	—			0,20		
775 CP10 0212	50	25	65	85	32	20	40	M12	M12	40			0,30		
775 CP10 0316	60	32	71	95	40	25	40	M16	M12	45			0,50		

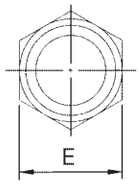
Order example: 3 p. 775 CP10 0110 Exemple de commande: 3 p. 775 CP10 0110 Bestellbeispiel: 3 Stk. 775 CP10 0110

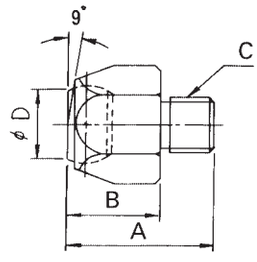
Clamping bolt, smooth

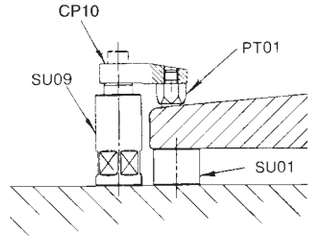
Pointe de bridage, lisse

Spannbolzen, glatt

PT01







Ref.	A	B	C	D	E	Typ/Type	g			
775 PT01 0108	25	12	M 8	9	13	smooth lisse glatt	20			
775 PT01 0210	30	16	M10	11	17		35			
775 PT01 0312	35	22	M12	14	22		75			
775 PT01 0416	42	26	M16	19	27		150			

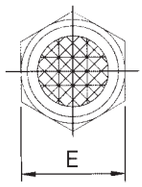
Order example: 3 p. 775 PT01 0108 Exemple de commande: 3 p. 775 PT01 0108 Bestellbeispiel: 3 Stk. 775 PT01 0108

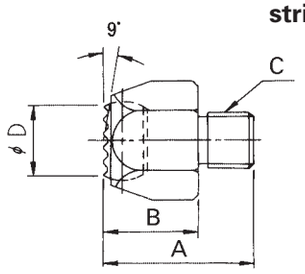
Clamping bolt, ridged

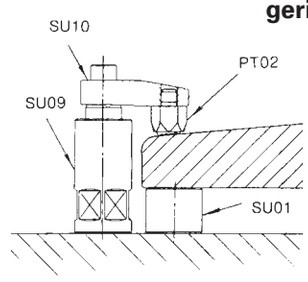
Pointe de bridage, striée

Spannbolzen, gerippt

PT02







Ref.	A	B	C	D	E	Typ/Type	g			
775 PT02 0108	25	12	M 8	9	13	ridged strié gerippt	20			
775 PT02 0210	30	16	M10	11	17		35			
775 PT02 0312	35	22	M12	14	22		75			
775 PT02 0416	42	26	M16	19	27		150			

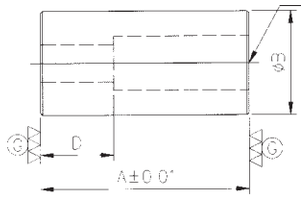
Order example: 3 p. 775 PT02 0108 Exemple de commande: 3 p. 775 PT02 0108 Bestellbeispiel: 3 Stk. 775 PT02 0108

Cylindrical support centered bore

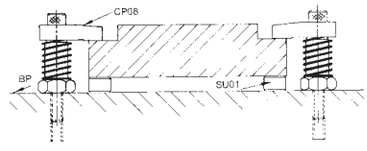
Support cylindrique alésage centré

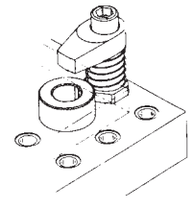
Support zylindrisch Bohrung zentrisch

SU01



Bored for cheese-head screw
Trou pour vis à tête cylindrique
Bohrung für Zylinderkopfschraube





CK 45 HRC 40

Ref.	A	B	C	D									kg		
775 SU01 0112	30	40	Ø14	17									0,25		
775 SU01 0212	40	40	Ø14	27									0,33		
775 SU01 0312	50	40	Ø14	37									0,42		
775 SU01 0416	30	50	Ø18	12									0,40		
775 SU01 0516	40	50	Ø18	22									0,50		
775 SU01 0616	50	50	Ø18	32									0,63		

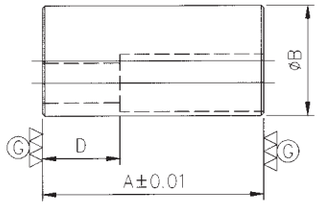
Order example: 3 p. 775 SU01 0112 Exemple de commande: 3 p. 775 SU01 0112 Bestellbeispiel: 3 Stk. 775 SU01 0112

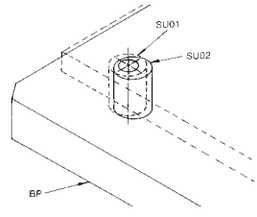
Cylindrical support eccentric bore

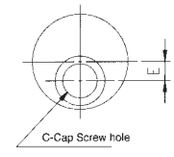
Support cylindrique alésage excentrique

Support zylindrisch Bohrung exzentrisch

SU02







CK 45 HRC 40

Ref.	A	B	C	D	E								kg		
775 SU02 0112	30	40	Ø14	17	7								0,25		
775 SU02 0212	40	40	Ø14	27	7								0,32		
775 SU02 0312	50	40	Ø14	37	7								0,39		
775 SU02 0416	30	50	Ø18	12	10								0,35		
775 SU02 0516	40	50	Ø18	22	10								0,48		
775 SU02 0616	50	50	Ø18	32	10								0,59		

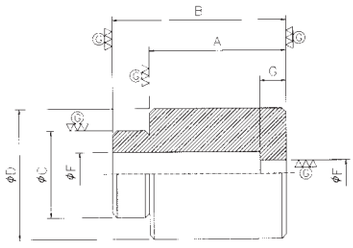
Order example: 3 p. 775 SU02 0112 Exemple de commande: 3 p. 775 SU02 0112 Bestellbeispiel: 3 Stk. 775 SU02 0112

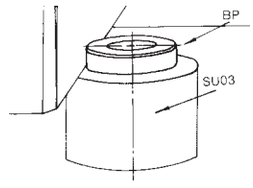
Cylindrial support shouldered

Support cylindrique étagé

Support zylindrisch abgesetzt

SU03





CK 45 HRC 40

Ref.	A (±0,01)	B (±0,01)	C (±0,01)	D	E (H7)	F	G						kg		
775 SU03 0112	30	40	40	60	Ø12	Ø20	12						0,52		
775 SU03 0212	40	50	40	60	Ø12	Ø20	12						0,70		
775 SU03 0312	50	60	40	60	Ø12	Ø20	12						0,90		
775 SU03 0416	30	40	50	75	Ø16	Ø26	15						1,10		
775 SU03 0516	40	50	50	75	Ø16	Ø26	15						1,36		
775 SU03 0616	50	60	50	75	Ø16	Ø26	15						1,70		

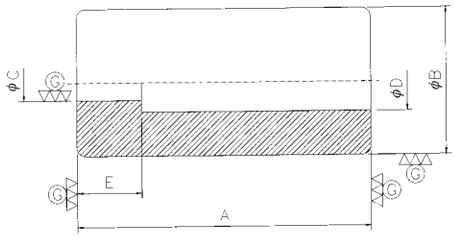
Order example: 3 p. 775 SU03 0112 Exemple de commande: 3 p. 775 SU03 0112 Bestellbeispiel: 3 Stk. 775 SU03 0112

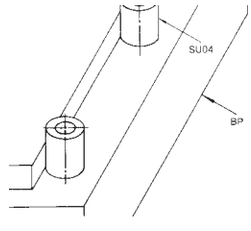
Cylindrical stop

Cylindre de butée

Anschlagzylinder

SU04





CK 45 HRC 40

Ref.	A (±0,01)	B (±0,01)	C (H7)	D	E								kg		
775 SU04 0112	30	40	Ø12	Ø20	12								0,30		
775 SU04 0212	40	40	Ø12	Ø20	12								0,35		
775 SU04 0312	50	40	Ø12	Ø20	12								0,38		
775 SU04 0416	30	50	Ø16	Ø26	15								0,40		
775 SU04 0516	40	50	Ø16	Ø26	15								0,52		
775 SU04 0616	50	50	Ø16	Ø26	15								0,60		

Order example: 3 p. 775 SU04 0112 Exemple de commande: 3 p. 775 SU04 0112 Bestellbeispiel: 3 Stk. 775 SU04 0112

Square support

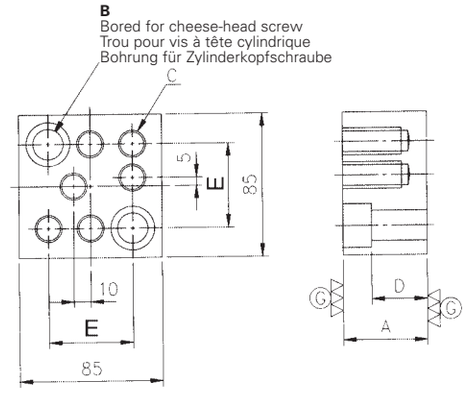
Support quadratique

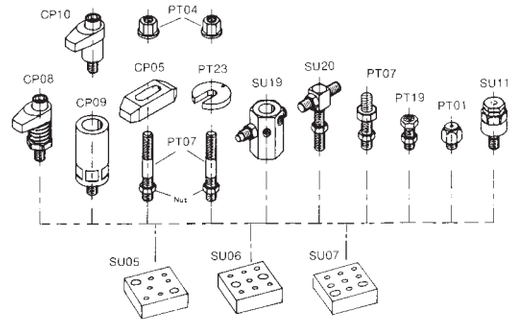
Support quadratisch

E: hole spacing 40 mm, M12 / 50 mm, M16

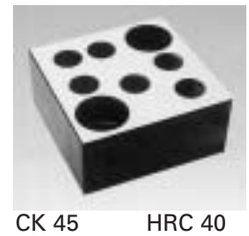
E: Quadrillage 40 mm, M12 / 50 mm, M16

E: Rasterabstand 40 mm, M12 / 50 mm, M16





SU05



CK 45 HRC 40

Ref.	A (±0,01)	B	C	D	E (±0,02)							kg		
775 SU05 0112N	30	Ø14	M12	17	40							1,5		
775 SU05 0212N	40	Ø14	M12	27	40							2,0		
775 SU05 0312N	50	Ø14	M12	37	40							2,5		
775 SU05 0416	30	Ø18	M16	12	50							1,4		
775 SU05 0516	40	Ø18	M16	22	50							1,9		
775 SU05 0616	50	Ø18	M16	32	50							2,4		

Order example: 3 p. 775 SU05 0112N

Exemple de commande: 3 p. 775 SU05 0112N

Bestellbeispiel: 3 Stk. 775 SU05 0112N

Square support

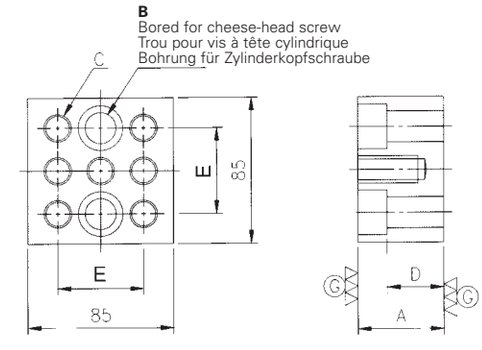
Support quadratique

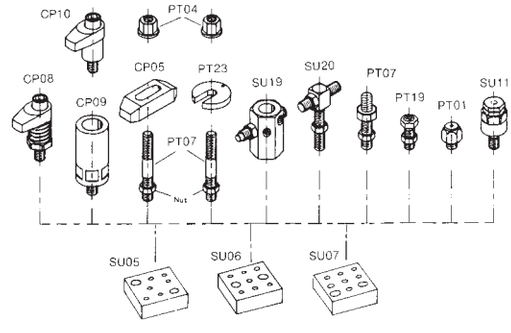
Support quadratisch

E: hole spacing 40 mm, M12 / 50 mm, M16

E: Quadrillage 40 mm, M12 / 50 mm, M16

E: Rasterabstand 40 mm, M12 / 50 mm, M16





SU06

CK 45 HRC 40

Ref.	A (±0,01)	B	C	D	E (±0,02)							kg		
775 SU06 0112N	30	Ø14	M12	17	40							1,5		
775 SU06 0212N	40	Ø14	M12	27	40							2,0		
775 SU06 0312N	50	Ø14	M12	37	40							2,5		
775 SU06 0416	30	Ø18	M16	12	50							1,4		
775 SU06 0516	40	Ø18	M16	22	50							1,9		
775 SU06 0616	50	Ø18	M16	32	50							2,4		

Order example: 3 p. 775 SU06 0112N

Exemple de commande: 3 p. 775 SU06 0112N

Bestellbeispiel: 3 Stk. 775 SU06 0112N

Square support

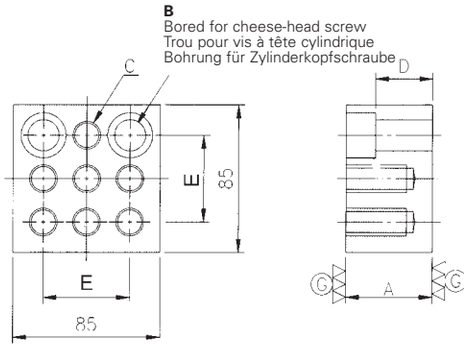
E: hole spacing 40 mm, M12 / 50 mm, M16

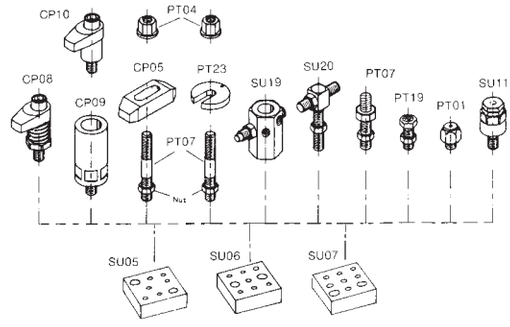
Support quadratique

E: Quadrillage 40 mm, M12 / 50 mm, M16

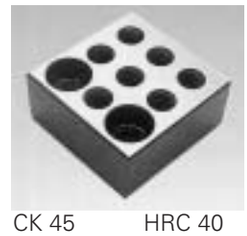
Support quadratisch

E: Rasterabstand 40 mm, M12 / 50 mm, M16





SU07



CK 45 HRC 40

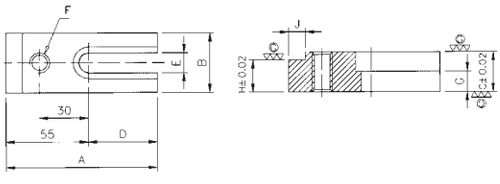
Ref.	A (±0,01)	B	C	D	E (±0,02)							kg		
775 SU07 0112N	30	Ø14	M12	17	40							1,5		
775 SU07 0212N	40	Ø14	M12	27	40							2,0		
775 SU07 0312N	50	Ø14	M12	37	40							2,5		
775 SU07 0416	30	Ø18	M16	12	50							1,4		
775 SU07 0516	40	Ø18	M16	22	50							1,9		
775 SU07 0616	50	Ø18	M16	32	50							2,4		

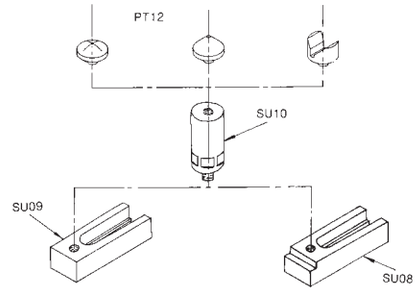
Order example: 3 p. 775 SU07 0112N Exemple de commande: 3 p. 775 SU07 0112N Bestellbeispiel: 3 Stk. 775 SU07 0112N

Extension piece

Rallonge

Verlängerung





SU08

CK 45 HRC 40

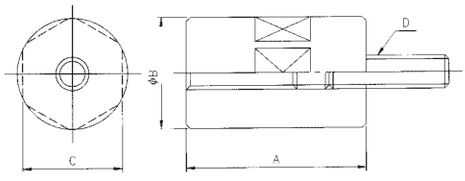
Ref.	A	B	C	D	E	F	G	H	J				kg		
775 SU08 0112	140	40	40	90	13	M12	27	30	10				1,2		
775 SU08 0216	140	50	40	90	17	M16	23	30	10				1,8		
775 SU08 0312	140	40	50	90	13	M12	32	40	10				1,5		
775 SU08 0416	140	50	50	90	17	M16	32	40	10				1,9		

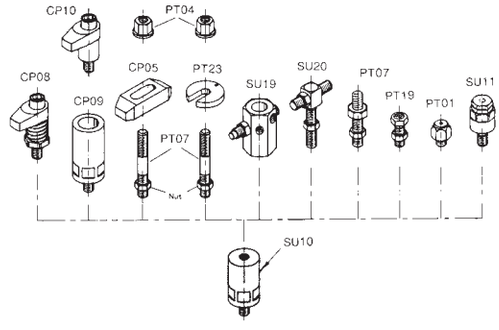
Order example: 3 p. 775 SU08 0112 Exemple de commande: 3 p. 775 SU08 0112 Bestellbeispiel: 3 Stk. 775 SU08 0112

Cylindrical jack extension

Rehausse cylindrique

Zylindrische Auflageverlängerung





SU10

CK 45 HRC 38

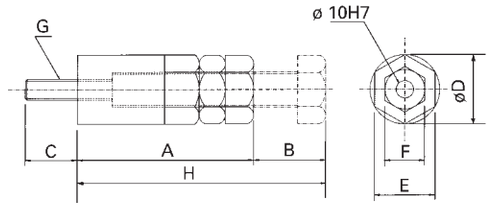
Ref.	A	B	C	D									kg		
775 SU10 0150	50	40	36	M12									0,40		
775 SU10 0265	65	40	36	M12									0,64		
775 SU10 0380	80	40	36	M12									0,78		
775 SU10 0450	50	50	46	M16									0,77		
775 SU10 0565	65	50	46	M16									1,00		
775 SU10 0680	80	50	46	M16									1,23		

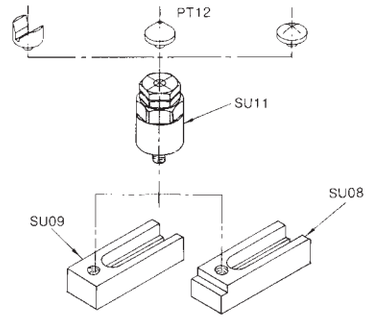
Order example: 3 p. 775 SU10 0150 Exemple de commande: 3 p. 775 SU10 0150 Bestellbeispiel: 3 Stk. 775 SU10 0150

Adjustable cylindrical screw jack

Vérin à vis réglable, cylindrique

Verstellbare Zylinder-Auflage





SU11

CK 45 HRC 40

Ref.	A	B	C	D	E	F	G	H					kg		
775 SU11 0112	65	20	20	40	36	32	M12	65/85					0,50		
775 SU11 0216	65	20	20	50	46	36	M16	65/85					0,52		

Order example: 3 p. 775 SU11 0112 Exemple de commande: 3 p. 775 SU11 0112 Bestellbeispiel: 3 Stk. 775 SU11 0112

Support stop, 4 sided

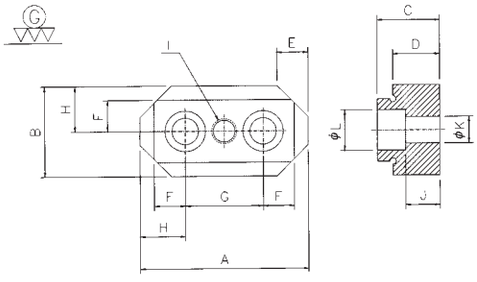
E: grid spacing 40 mm, M12 / 50 mm, M16

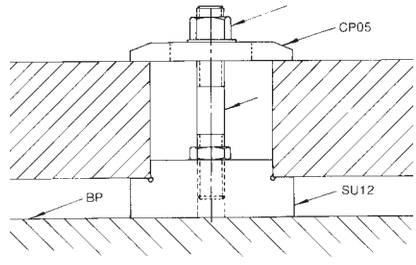
Support à butée étagée, 4 cotés

E: Quadrillage 40 mm, M12 / 50 mm, M16

Anschlagsupport, abgesetzt 4-seitig

E: Rasterabstand 40 mm, M12 / 50 mm, M16





SU12

CK 45 HRC 40

Ref.	A	B	C (±0,01)	D (±0,01)	E	F (±0,02)	G (±0,02)	H	I	J	K (F7)	L	kg		
775 SU12 0112N	110	60	40	30	20	20	40	30	M12	22	12	20	1,1		
775 SU12 0212N	110	60	50	40	20	20	40	30	M12	32	12	20	1,3		
775 SU12 0316	110	60	40	30	20	20	50	30	M16	22	16	26	1,0		
775 SU12 0416	110	60	50	40	20	20	50	30	M16	26	16	26	1,2		

Order example: 3 p. 775 SU12 0112N Exemple de commande: 3 p. 775 SU12 0112N Bestellbeispiel: 3 Stk. 775 SU12 0112N

Angle stop, 2 sided

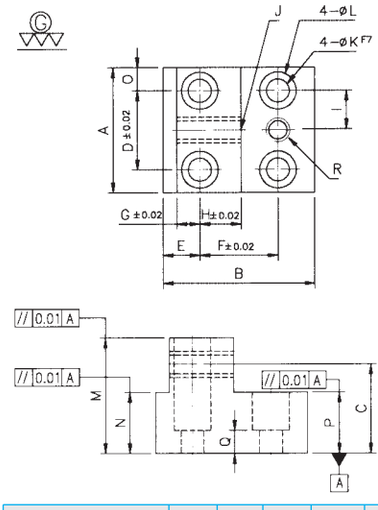
D:/F: hole spacing 40 mm, M12 / 50 mm, M16

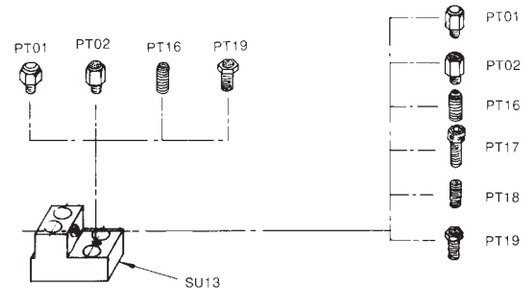
Butée angulaire, 2 cotés

D:/F: Quadrillage 40 mm, M12 / 50 mm, M16

Anschlag-Winkel, 2-seitig

D:/F: Rasterabstand 40 mm, M12 / 50 mm, M16





SU13

CK 45 HRC 40

Ref.	A	B	C	D ±0,02	E	F ±0,02	G	H	I	J	K	L	M ±0,01	N ±0,01	O	P ±0,01	Q	R	kg		
775 SU13 0112N	80	98	65	40	24	40	16	25	25	M12	Ø12	Ø20	80	40	15	40	22	M12	2,7		
775 SU13 0216	80	98	65	50	24	50	16	25	25	M16	Ø16	Ø26	80	40	15	40	21	M16	2,6		

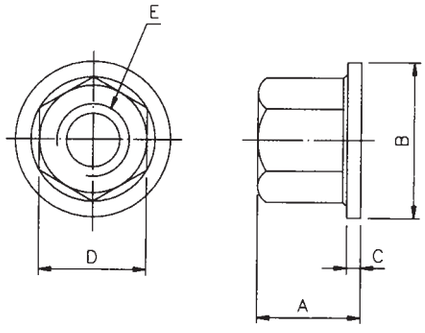
Order example: 3 p. 775 SU13 0112N Exemple de commande: 3 p. 775 SU13 0112N Bestellbeispiel: 3 Stk. 775 SU13 0112N

Hexagonal collar nut in CK45

Ecrou hexagonal avec collerette en CK45

Sechskantmutter mit Bund aus CK45

PT04



Ref.	A	B	C	D	E		kg		
775 PT04 0108	9	17	3	12	M 8		0,011		
775 PT04 0210	13	22	3	17	M10		0,033		
775 PT04 0312	17	28	4	19	M12		0,050		
775 PT04 0414	17	28	4	22	M14		0,081		
775 PT04 0516	20	33	5	24	M16		0,081		
775 PT04 0618	20	35	5	27	M18		0,083		
775 PT04 0720	25	40	6	30	M20		0,150		
775 PT04 0822	28	45	6	32	M22		0,170		
775 PT04 0924	28	47	6	36	M24		0,360		

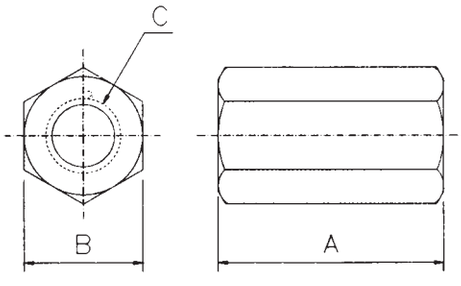
Order example: 3 p. 775 PT04 0108 Exemple de commande: 3 p. 775 PT04 0108 Bestellbeispiel: 3 Stk. 775 PT04 0108

Extension nut in CK45

Ecrou allongé en CK45

Verlängerungsmutter aus CK45

PT05



Ref.	A	B	C		kg		
775 PT05 1030	30	17	M10		0,030		
775 PT05 1236	36	19	M12		0,046		
775 PT05 1442	42	22	M14		0,065		
775 PT05 1648	48	24	M16		0,110		
775 PT05 1854	54	27	M18		0,150		
775 PT05 2060	60	30	M20		0,220		
775 PT05 2266	66	32	M22		0,350		
775 PT05 2472	72	36	M24		0,350		

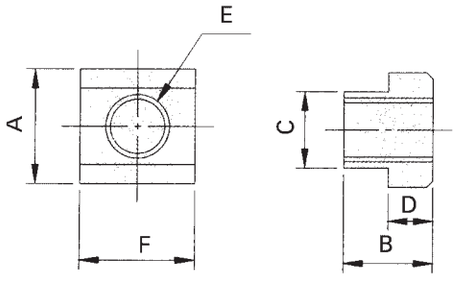
Order example: 3 p. 775 PT05 1030 Exemple de commande: 3 p. 775 PT05 1030 Bestellbeispiel: 3 Stk. 775 PT05 1030

T-nut

Coulisseau à T

T-Nutenstein

PT06



Ref.	A	B	C	D	E	F		kg		
775 PT06 1008	15.8	12.7	9.5	4.7	M 8	22		0,020		
775 PT06 1210	17,5	12,7	11,8	5,5	M10	22		0,022		
775 PT06 1410	22,2	15,8	13,8	8,7	M10	28		0,050		
775 PT06 1412	22,2	15,8	13,8	8,7	M12	28		0,048		
775 PT06 1612	25,4	15,8	15,8	8,7	M12	28		0,060		
775 PT06 1614	25,4	15,8	15,8	8,7	M14	28		0,057		
775 PT06 1814	28,5	19,0	17,5	11,1	M14	30		0,090		
775 PT06 1816	28,5	19,0	17,5	11,1	M16	30		0,085		
775 PT06 2016	31,7	19,0	19,0	11,9	M16	30		0,098		
775 PT06 2018	31,7	25,4	19,7	14,0	M18	38		0,110		
775 PT06 2218	36,0	25,4	21,7	13,8	M18	38		0,178		
775 PT06 2220	36,0	25,4	21,7	13,8	M20	38		0,190		
775 PT06 2824	44,0	28,5	26,9	17,5	M24	50		0,312		

Special dimensions

Dimensions spéciales

Sonderabmessungen

Ref.	A	B	C	D	E	F		kg		
775 PT06 2216	35	28	21,7	14	M16			0,150		
775 PT06 2816	44	36	27,7	18	M16			0,310		
775 PT06 2820	44	36	27,7	18	M20			0,310		

Order example: 3 p. 775 PT06 2216

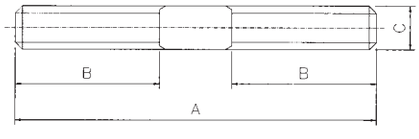
Exemple de commande: 3 p. 775 PT06 2216

Bestellbeispiel: 3 Stk. 775 PT06 2216

Stud in CK45

Goujon en CK45

Stiftschraube aus CK45



Ref.	A	B	C	g		
775 PT07 1050	50	22		30		
775 PT07 1075	75	30		42		
775 PT07 10100	100	32		55		
775 PT07 10125	125	32	M10	70		
775 PT07 10150	150	32	P=1.5	90		
775 PT07 10175	175	32		103		
775 PT07 10200	200	32		123		
775 PT07 1250	50	22		40		
775 PT07 1275	75	30		60		
775 PT07 12100	100	38		80		
775 PT07 12125	125	38	M12	100		
775 PT07 12150	150	38	P=1.75	125		
775 PT07 12175	175	38		155		
775 PT07 12200	200	38		160		
775 PT07 12300	300	38		240		
775 PT07 1450	50	22		60		
775 PT07 1475	75	30		90		
775 PT07 14100	100	38		120		
775 PT07 14125	125	38	M14	150		
775 PT07 14150	150	38	P=2.0	180		
775 PT07 14175	175	38		210		
775 PT07 14200	200	38		240		
775 PT07 1650	50	22		78		
775 PT07 1675	75	30	M16	120		
775 PT07 16100	100	38	P=2.0	145		
775 PT07 16125	175	38		180		

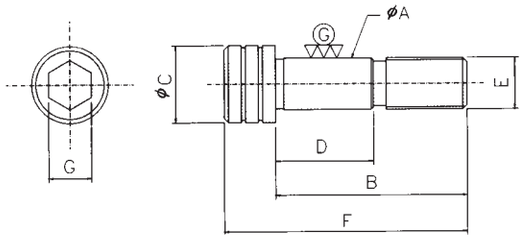
Ref.	A	B	C	g		
775 PT07 16150	150	33		230		
775 PT07 16175	175	33		276		
775 PT07 16200	200	33		290		
775 PT07 16250	250	65	M16	350		
775 PT07 16300	300	65	P=2.0	450		
775 PT07 16400	400	65		580		
775 PT07 16500	500	65		700		
775 PT07 1850	50	22		100		
775 PT07 1875	75	30		150		
775 PT07 18100	100	38		200		
775 PT07 18125	125	38	M18	250		
775 PT07 18150	150	38	P=2.5	300		
775 PT07 18175	175	38		350		
775 PT07 18200	200	38		400		
775 PT07 18300	300	65		600		
775 PT07 2050	50	22		125		
775 PT07 2075	75	30		170		
775 PT07 20100	100	38		230		
775 PT07 20125	125	38		280		
775 PT07 20150	150	38	M20	360		
775 PT07 20175	175	38	P=2.5	437		
775 PT07 20200	200	38		450		
775 PT07 20250	250	65		550		
775 PT07 20300	300	65		700		
775 PT07 20400	400	65		880		
775 PT07 20500	500	65		1100		

Positioning screw for Leave elements

Vis de positionnement pour éléments Leave

Positionierschraube für Leave-Elemente

PT31



Ref.	A (g6)	B	C	D	E	F	G		g		
775 PT31 0112	Ø12	45	18	23	M12	57	10		53		
775 PT31 0212	Ø12	55	18	33	M12	67	10		60		
775 PT31 0312	Ø12	65	18	43	M12	77	10		70		
775 PT31 0412	Ø12	75	18	53	M12	87	10		78		
775 PT31 0516	Ø16	55	24	30	M16	72	14		120		
775 PT31 0616	Ø16	65	24	40	M16	82	14		140		
775 PT31 0716	Ø16	75	24	50	M16	92	14		150		

Order example: 3 p. 775 PT31 0112 Exemple de commande: 3 p. 775 PT31 0112 Bestellbeispiel: 3 Stk. 775 PT31 0112

Metal plug
Plastic plug

Bouchon de fermeture métallique
Bouchon de fermeture plastique

Metall-Verschlusszapfen
Kunststoff-Verschlusszapfen

PT34

CK 45

Ref.		g		
760901	M12	15		
760902	M16	18		

Ref.		g		
760903	M12	5		
760904	M16	10		

Eye bolts

Vis à anneau

Ringschrauben

784 012
784 016
784 024

Ref.				
784 012	M12			
784 016	M16			
784 024	M24			

Positioning Bush
Thread Bush

Douille à presser
Douille filetée

Pressbüchsen
Gewindebüchsen

751 635
751 636
751 637
751 638

Ref.				
751 635	M12			
751 636	M16			
751 637	Ø12			
751 638	Ø16			

Tightening torque

Moments de couple

Anzugsmomente

Clamping force F (kg)

Force de serrage F (kg)

Spannkraft F (kg)

Torque Moment de torsion Drehmoment **NM**	0112 0312 **CP 11**	0216 0416 **CP11**	**CP 12**	**CP 13**	**FLE 50... / SVF 50...**	**FLE 72... / SVF 72...**	**California**	**Dakota** Deviation: Upper edge of stationary jaw in mm Divergence: Arête supérieure du mors fixe en mm Abweichung: Oberkante der festen Backe in mm		**784 041**	**784 051**	**784 241**	**784 251**
10	250	250	300	600	300	250	1000	500	0,01	590	590	590	590
15	450		800	900	600	450				980	980	980	980
20	750	750	1000	1100	900	700	1200	900	0,02	1270	1270	1270	1270
25	1000		1200	1300	1200	900				1500	1500	1500	1500
30	1300	1000	1400	1600	1400	1100	1450	1400	0,03	1820	1820	1820	1820
35	1500		1600	1750	1700	–				2190	2190	2190	2190
40	1700	1200	1900	1900		1500	1800	1800	0,04				
50	2100	1500				1800	2100	2100	0,045				
60		1900				2200		2400	0,055				
70		2200				2500		2700	0,06				
80		2600						3000	0,07				
90		3000						3300	0,075				
100		3200						3600	0,08				
110		3300						4000	0,085				
120		3500											
130													
140													
150													
160													
170													
180													

Please note that the clamping force is highly dependet on the degree of lubrication on the spindle and bearing surfaces!

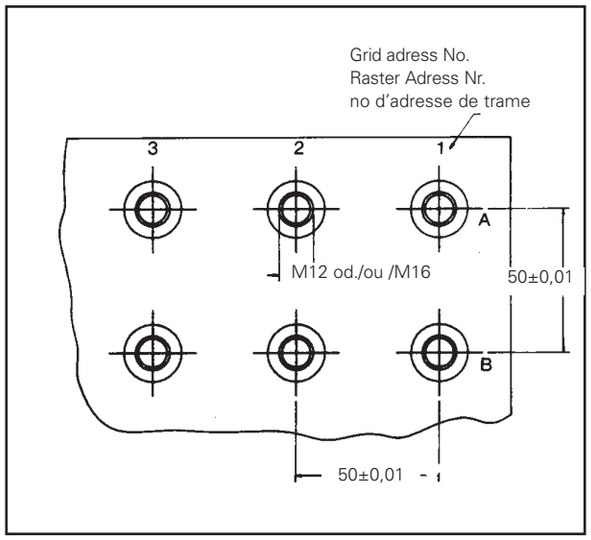
- The table is valid for cleaned and lubricated spindles!
- Deviations of ± 10% are possible

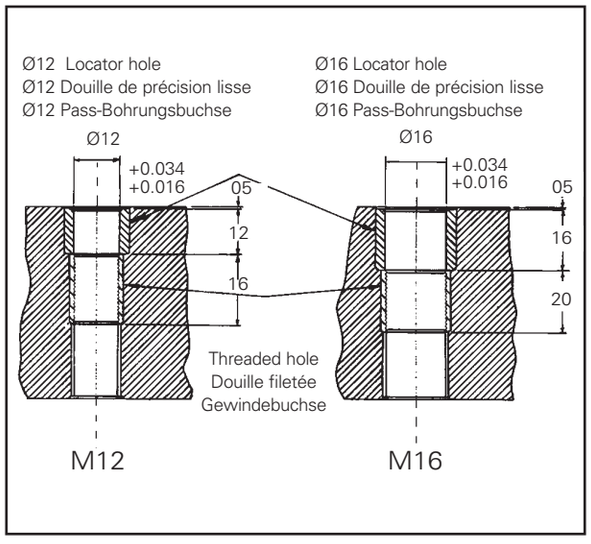
Nous vous rendons attentif du fait que la force de serrage dépend fortement du degrée de lubrification sur la broche et les surfaces de frottement!

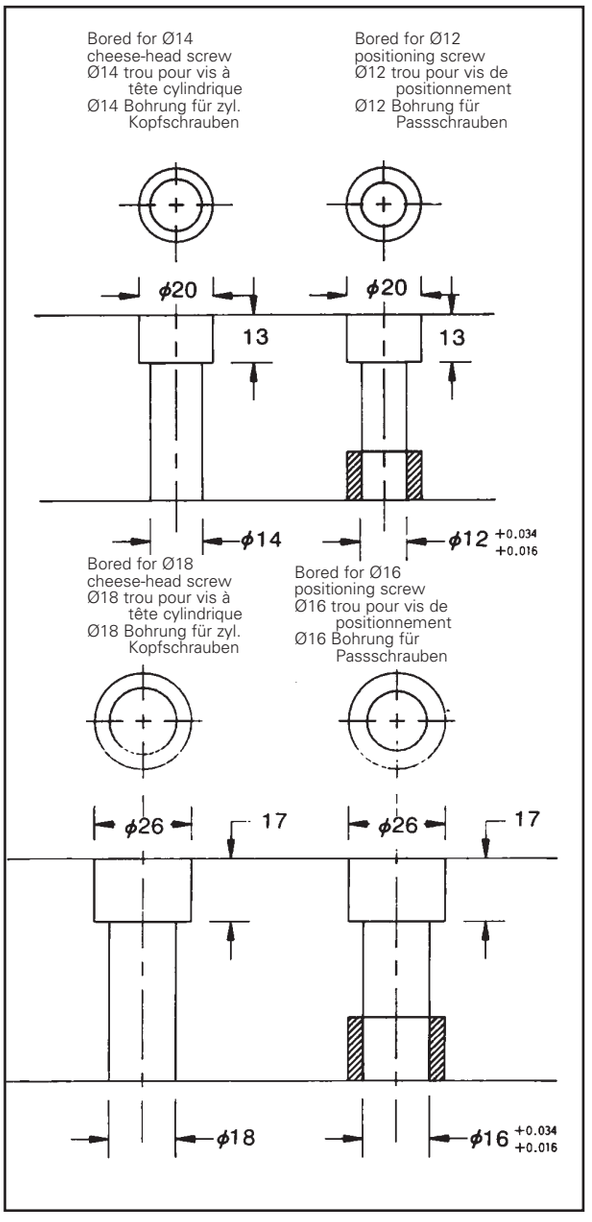
- Tableau valable avec des eléments nettoyés et lubrifiés!
- écart ± 10% possible

Wir weisen darauf hin, dass die Spannkraft stark abhängig ist vom Schmiergrad an Spindel und Laufflächen!

- Tabelle gilt für gereinigte und geschmierte Spindeln!
- Abweichungen ± 10% möglich


Grid adress No.
Raster Adress Nr.
no d'adresse de trame
3
2
1
A
B
M12 od./ou /M16
50±0,01
50±0,01


Ø12 Locator hole
Ø12 Douille de précision lisse
Ø12 Pass-Bohrungsbuchse
Ø16 Locator hole
Ø16 Douille de précision lisse
Ø16 Pass-Bohrungsbuchse
Ø12
+0.034
+0.016
05
12
16
Ø16
+0.034
+0.016
05
16
20
Threaded hole
Douille filetée
Gewindebuchse
M12
M16


Bored for Ø14
cheese-head screw
Ø14 trou pour vis à
tête cylindrique
Ø14 Bohrung für zyl.
Kopfschrauben
Bored for Ø12
positioning screw
Ø12 trou pour vis de
positionnement
Ø12 Bohrung für
Passschrauben
ϕ20
13
ϕ20
13
ϕ14
ϕ12 +0.034 +0.016
Bored for Ø18
cheese-head screw
Ø18 trou pour vis à
tête cylindrique
Ø18 Bohrung für zyl.
Kopfschrauben
Bored for Ø16
positioning screw
Ø16 trou pour vis de
positionnement
Ø16 Bohrung für
Passschrauben
ϕ26
17
ϕ26
17
ϕ18
ϕ16 +0.034 +0.016

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Machining and workholding
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Im Schossacher 17
CH-8600 Dübendorf

Tel. +41 044 802 15 15
Fax +41 044 802 15 95

info@vb-tools.com
www.vb-tools.com

Vischer & Bolli
Werkzeug- und Spanntechnik GmbH

Robert-Bosch-Strasse 29a
D-88131 Lindau

Tel. +49 (0) 8382 96 19 - 0
Fax +49 (0) 8382 96 19 30

germany@vb-tools.com
www.vb-tools.com